







TTL rabbit pAb

Catalog No YP-Ab-08778 Isotype IgG Reactivity Human; Mouse;Rat Applications WB Gene Name TTL Protein Name TTL Immunogen Synthesized peptide derived from human TTL AA range: 160-210 Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity: ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor Magnesium, cofactor: Potassium, function Catalyzes the post-translational and difficition of a tyrosine to the Ceterminal end of detyrosinated alpha-tubulin (see Mill G02529), Alpha-tubulin (momer, alpha-tubulin (see Mill G02529), Alpha-tubulin (momer, alpha-tubulin (see Mill G02529), Alpha-tubulin (within assembled microtubules is detyrosinated		
Reactivity Human; Mouse;Rat Applications WB Gene Name TTL Protein Name TTL Immunogen Synthesized peptide derived from human TTL AA range: 160-210 Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity 290% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor:Magnesium, cofactor:Potassium, function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin. similarity. Belongs to the tubulin-tyrosine ligase familly, similarity. Centains 1 TTL domain. subunit:Monomer. Background TTL is a cytosolic enzyme involved in the postranslational modification of detyrosinated over time at the C terminus. After microtubule sis delyrosinated and tyrosination (Erck et al., 2003 [PubMed 14571137]). [supplied by OMIM, Mar 2008]. matters needing Avoid repeated freezing and thawing!	Catalog No	YP-Ab-08778
Applications Gene Name TTL Protein Name TTL Immunogen Synthesized peptide derived from human TTL AA range: 160-210 Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function Catalytic activity: ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor: Magnesium, cofactor: Potassium, function, Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin-tyrosine ligase family, similarity, Belongs to the tubulin-tyrosine ligase family, similarity, Contains 1 TTL domain, subunit/Monomer. Background TTL is a cytosolic enzyme involved in the posttranslational amodification of alpha-tubulin (see MiM 602529). Alpha-tubulin within assembled microtubules is delyrosinated alpha-tubuluse is adelyrosinated on alpha-tubulin (see MiM 602529). Alpha-tubulin within assembled microtubules is delyrosinated over time at the C terminus. After microtubule disassembly, TTL resfores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], Matters needing Avoid repeated freezing and thawing!	Isotype	IgG
Gene Name TTL Protein Name TTL Immunogen Synthesized peptide derived from human TTL AA range: 160-210 Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function Catalytic activity: ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor: Magnesium, cofactor: Potassium, function, Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin, similarity; Belongs to the tubulin-tyrosine ligase family, similarity; Chains 1 TTL domain, subunit: Monomer. Background TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see Milk 62529). Alpha-tubuluit participates in a cycle of tubulin detyrosinated over time at the C terminus. After microtubule disassembly, TTL resfores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]). [supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Reactivity	Human; Mouse;Rat
Protein Name TTL Immunogen Synthesized peptide derived from human TTL AA range: 160-210 Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function Catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor:Magnesium, cofactor:Potassium, function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin, similarity:Belongs to the tubulin-tyrosine ligase family, similarity:Contains 1 TTL domain, subunit:Monomer. Background TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MilM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participate in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]), [supplied by OMIM, Mar 2008],	Applications	WB
Immunogen Synthesized peptide derived from human TTL AA range: 160-210 Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function Catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor:Magnesium, cofactor:Potassium, function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin, similarity.Belongs to the tubulin-tyrosine ligase family, similarity.Contains 1 TTL domain, subunit:Monomer. Background TIL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participation is a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008].	Gene Name	TTL
Specificity This antibody detects endogenous levels of TTL at Human/Mouse/Rat Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit, IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor:Magnesium, cofactor:Potassium, function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin, similarity:Belongs to the tubulin—tyrosine ligase family,.similarity:Contains 1 TTL domain.,subuniti.Monomer. TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Protein Name	TTL
Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphatecofactor:Magnesiumcofactor:Potassium.function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin, similarity:Belongs to the tubulin-tyrosine ligase familysimilarity:Contains 1 TTL domainsubunit:Monomer. Background TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Immunogen	Synthesized peptide derived from human TTL AA range: 160-210
Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor:Magnesium, cofactor:Polassium, function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin, similarity:Belongs to the tubulin-tyrosine ligase family., similarity:Contains 1 TTL domain, subunit:Monomer. Background TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Specificity	This antibody detects endogenous levels of TTL at Human/Mouse/Rat
Purification The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate_cofactor:Magnesium_cofactor:Potassium_function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.ysimilarity:Contains 1 TTL domain_subunit.Monomer., Background TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin in within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
using specific immunogen. Dilution WB 1: 500-2000 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin-tyrosine ligase family.,similarity:Belongs to the tubulin-tyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., Background TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Source	Polyclonal, Rabbit,IgG
Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate, cofactor:Magnesium, cofactor:Potassium, function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family,,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Purification	
Purity ≥90% Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function Catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulin-tyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Dilution	WB 1: 500-2000
Storage Stability -20°C/1 year Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Concentration	1 mg/ml
Synonyms Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphatecofactor:Magnesiumcofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulinsimilarity:Belongs to the tubulintyrosine ligase familysimilarity:Contains 1 TTL domainsubunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Purity	≥90%
Observed Band Cell Pathway Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Storage Stability	-20°C/1 year
Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Synonyms	
Tissue Specificity Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Observed Band	
Function catalytic activity:ATP + detyrosinated alpha-tubulin + L-tyrosine = alpha-tubulin + ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Cell Pathway	
ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase family.,similarity:Contains 1 TTL domain.,subunit:Monomer., TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Tissue Specificity	
alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008], matters needing Avoid repeated freezing and thawing!	Function	ADP + phosphate.,cofactor:Magnesium.,cofactor:Potassium.,function:Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.,similarity:Belongs to the tubulintyrosine ligase
	Background	alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied
		Avoid repeated freezing and thawing!



UpingBio technology Co.,Ltd

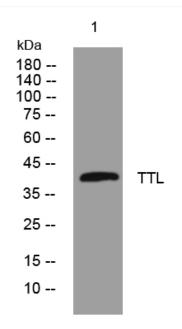
C Tel: 400-999-8863 ≤ Email:UpingBio@163.com



Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from THP-1 cells, primary antibody was diluted at 1:1000, 4° over night