



NDR2 Monoclonal Antibody

Catalog No	YP-mAb-14874
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	STK38L
Immunogen	Synthesized peptide derived from NDR2 . at AA range: 380-460
Specificity	NDR2 Monoclonal Antibody detects endogenous levels of NDR2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KIAA0965;NDR2;NDR2 protein kinase;Nuclear Dbf2 related kinase 2;STK38L; Serine/threonine-protein kinase 38-like;Nuclear Dbf2-related kinase 2
Observed Band	54kD
Calculated Molecular Weight	54kD
Cell Pathway	Cytoplasm. Cytoplasm, cytoskeleton. Membrane. Associated with the actin cytoskeleton. Co-localizes with STK24/MST3 in the membrane.
Tissue Specificity	Ubiquitously expressed with highest levels observed in the thymus.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,enzyme regulation:Activated by binding of S100B which releases autoinhibitory N-lobe interactions, enabling ATP to bind and the autophosphorylation of Ser-282. Thr-442 then undergoes calcium-dependent phosphorylation by an upstream kinase. Interactions between phosphorylated Thr-442 and the N-lobe promote additional structural changes that complete the activation of the kinase. Autoinhibition is also released by the binding of MOB1/ MOBK1A and MOB2/HCCA2 to the N-terminal of STK38L.,function:Involved in the regulation of structural processes in differentiating and mature neuronal cells.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR., similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase



family.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 pr

Background

catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,enzyme regulation:Activated by binding of S100B which releases autoinhibitory N-lobe interactions, enabling ATP to bind and the autophosphorylation of Ser-282. Thr-442 then undergoes calcium-dependent phosphorylation by an upstream kinase. Interactions between phosphorylated Thr-442 and the N-lobe promote additional structural changes that complete the activation of the kinase. Autoinhibition is also released by the binding of MOB1/ MOBKL1A and MOB2/HCCA2 to the N-terminal of STK38L.,function:Involved in the regulation of structural processes in differentiating and mature neuronal cells.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR., similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Associated with the actin cytoskeleton.,subunit:Homodimeric S100B binds two molecules of STK38L (By similarity). Interacts with MOB1 and MOB2.,tissue specificity:Ubiquitously expressed with highest levels observed in the thymus.,

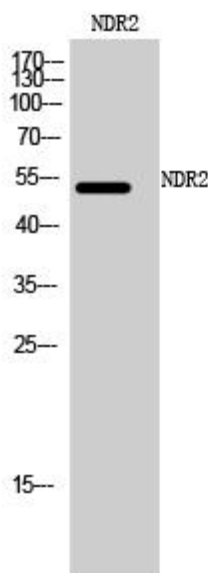
matters needing attention

Avoid repeated freezing and thawing!

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 various cells using NDR2 Monoclonal Antibody