



# Unc18-1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-12835
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	STXBP1
<b>Protein Name</b>	Syntaxin-binding protein 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MUNC-18a. AA range:279-328
<b>Specificity</b>	Unc18-1 Polyclonal Antibody detects endogenous levels of Unc18-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	STXBP1; UNC18A; Syntaxin-binding protein 1; MUNC18-1; N-Sec1; Protein unc-18 homolog 1; Unc18-1; Protein unc-18 homolog A; Unc-18A; p67
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm, cytosol . Membrane; Peripheral membrane protein.
<b>Tissue Specificity</b>	Brain and spinal cord. Highly enriched in axons.
<b>Function</b>	disease:Defects in STXBP1 are the cause of early infantile epileptic encephalopathy type 4 (EIEE4) [MIM:612164]. Affected individuals have neonatal or infantile onset of seizures, suppression-burst pattern on EEG, profound mental retardation, and MRI evidence of hypomyelination.,function:May participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. May play a role in determining the specificity of intracellular fusion reactions.,similarity:Belongs to the STXBP/unc-18/SEC1 family.,subunit:Binds SYTL4 and STX1A.,tissue specificity:Brain and spinal cord. Highly enriched in axons.,
<b>Background</b>	This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of neurotransmitters via regulation of syntaxin, a



transmembrane attachment protein receptor. Mutations in this gene have been associated with infantile epileptic encephalopathy-4. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010],

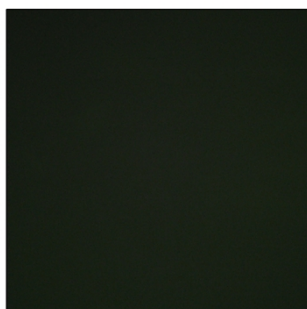
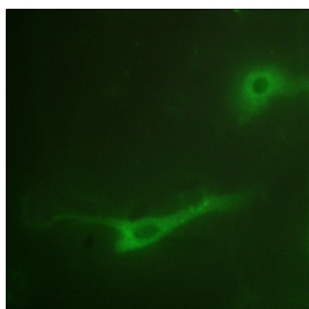
#### matters needing attention

Avoid repeated freezing and thawing!

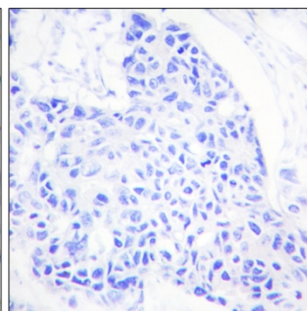
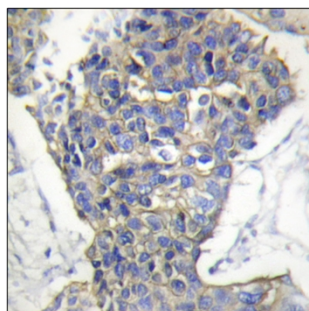
#### Usage suggestions

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

### Products Images



Immunofluorescence analysis of NIH/3T3 cells, using MUNC-18a Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MUNC-18a Antibody. The picture on the right is blocked with the synthesized peptide.