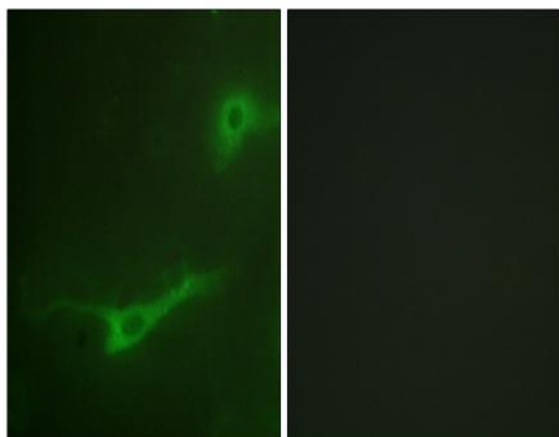


## Unc18-1 Polyclonal Antibody

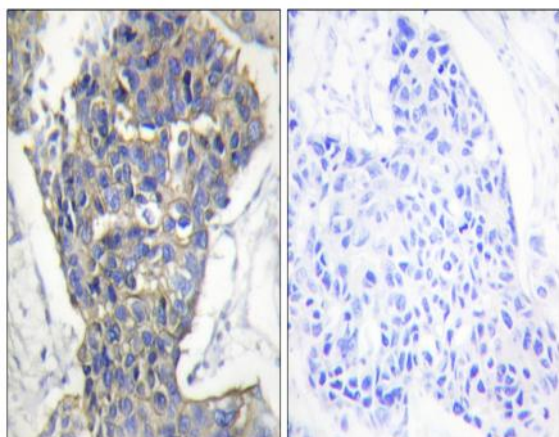
<b>Catalog No :</b>	YT4822
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	Unc18-1
<b>Fields :</b>	>>Synaptic vesicle cycle
<b>Gene Name :</b>	STXBP1
<b>Protein Name :</b>	Syntaxin-binding protein 1
<b>Human Gene Id :</b>	6812
<b>Human Swiss Prot No :</b>	P61764
<b>Mouse Gene Id :</b>	20910
<b>Mouse Swiss Prot No :</b>	O08599
<b>Rat Gene Id :</b>	25558
<b>Rat Swiss Prot No :</b>	P61765
<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>Dilution :</b>	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	68kD
<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],
<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>Subcellular Location :</b>	Cytoplasm, cytosol . Membrane; Peripheral membrane protein.
<b>Expression :</b>	Brain and spinal cord. Highly enriched in axons.
<b>Sort :</b>	23970
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

## 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.