Best Tools for immunology Research

Unc18-1 Polyclonal Antibody

Catalog No :	YT4822
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	Unc18-1
Fields :	>>Synaptic vesicle cycle
Gene Name :	STXBP1
Protein Name :	Syntaxin-binding protein 1
Human Gene Id :	6812
Human Swiss Prot No :	P61764
Mouse Gene Id :	20910
Mouse Swiss Prot No :	O08599
Rat Gene Id :	25558
Rat Swiss Prot No :	P61765
Immunogen :	The antiserum was produced against synthesized peptide derived from human MUNC-18a. AA range:279-328
Specificity :	Unc18-1 Polyclonal Antibody detects endogenous levels of Unc18-1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 68kD

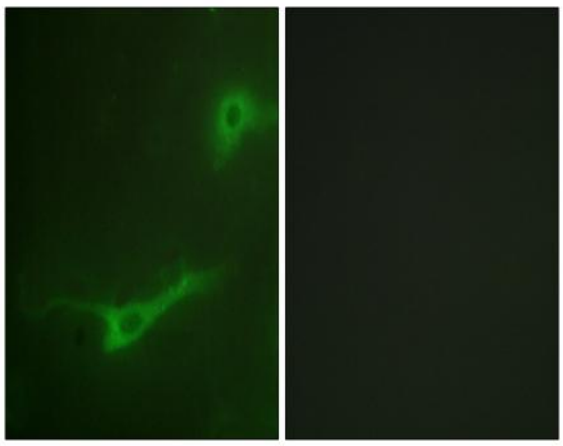
Background : This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of neurotransmitters via regulation of syntaxin, a transmembrane attachment protein receptor. Mutations in this gene have been associated with infantile epileptic encephalopathy-4. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010],

Function : 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.,

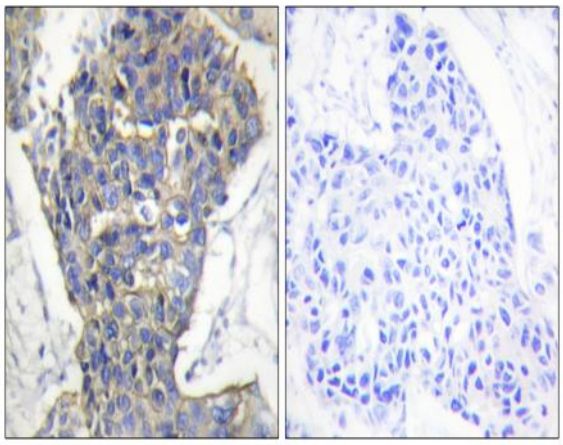
Subcellular Location : Cytoplasm, cytosol . Membrane; Peripheral membrane protein.

Expression : Brain and spinal cord. Highly enriched in axons.

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.