

Anti-Munc18-1 Picoband Antibody

Catalog # ABO12505

Product Information

Application	WB, IHC-P
Primary Accession	P61764
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Syntaxin-binding protein 1(STXBP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6812
Other Names	Syntaxin-binding protein 1, MUNC18-1, N-Sec1, Protein unc-18 homolog 1, Unc18-1, Protein unc-18 homolog A, Unc-18A, p67, STXBP1, UNC18A
Calculated MW	67569
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm, cytosol . Membrane; Peripheral membrane protein.
Tissue Specificity	Brain and spinal cord. Highly enriched in axons.
Source	Eukaryota
Protein Name	Syntaxin-binding protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Munc18-1 (184-216aa KEYPVRYRGEYKDNALLAQLIQDKLDAYKADD), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

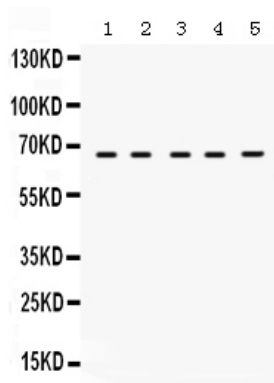
Protein Information

Name	STXBP1
Synonyms	UNC18A
Function	Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). 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. Involved in the release of neurotransmitters from neurons through interacting with SNARE complex component STX1A and mediating the assembly of the SNARE complex at synaptic membranes (By similarity). May play a role in determining the specificity of intracellular fusion reactions.
Cellular Location	Cytoplasm, cytosol. Membrane; Peripheral membrane protein
Tissue Location	Brain and spinal cord. Highly enriched in axons.

Background

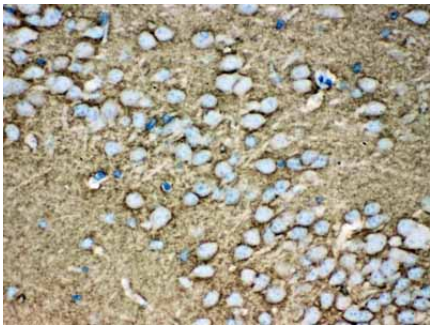
Syntaxin-binding protein 1, also known as Munc18-1, is a protein that in humans is encoded by the STXBP1 gene. By fluorescence in situ hybridization, the STXBP1 gene is mapped to chromosome 9q34.1. This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of 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.

Images

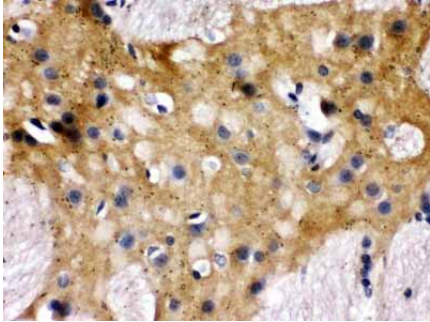


Anti- Munc18-1 Picoband antibody, ABO12505, Western blotting
All lanes: Anti Munc18-1 (ABO12505) at 0.5ug/mL
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Lane 3: PANC Whole Cell Lysate at 40ug
Lane 4: HEPG2 Whole Cell Lysate at 40ug
Lane 5: HELA Whole Cell Lysate at 40ug
Predicted bind size: 67KD
Observed bind size: 67KD

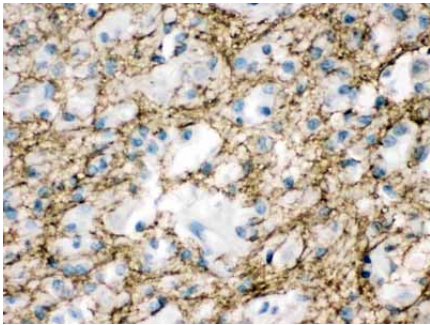
Anti- Munc18-1 Picoband antibody, ABO12505,
IHC(P)IHC(P): Mouse Brain Tissue



Anti- Munc18-1 Picoband antibody, ABO12505,
IHC(P)IHC(P): Rat Brain Tissue



Anti- Munc18-1 Picoband antibody, ABO12505,
IHC(P)IHC(P): Human Glioma Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.