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Anti-Munc18-1 Picoband Antibody

Catalog # ABO12505

Specification

Anti-Munc18-1 Picoband Antibody - Product Information

Application	**WB, IHC**
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.

Anti-Munc18-1 Picoband Antibody - 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 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm, cytosol . Membrane; Peripheral membrane protein.

Tissue Specificity
Brain and spinal cord. Highly enriched in axons.

Protein Name
Syntaxin-binding protein 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human Munc18-1 (184-216aa KEYPAVRYRGEYKDNALLAQLIQDKLDAYKADD), 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 r˚Constitution, 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.**

Anti-Munc18-1 Picoband Antibody - 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.

Anti-Munc18-1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Munc18-1 Picoband Antibody - Images

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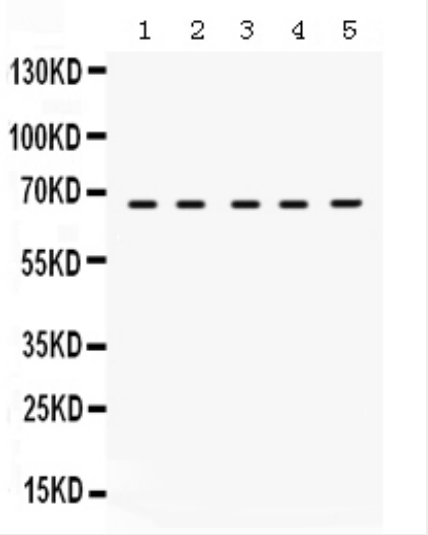
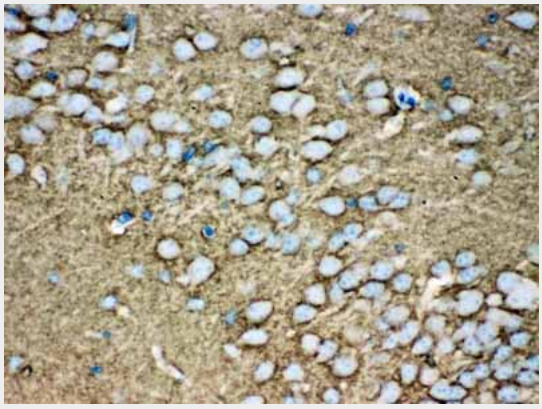
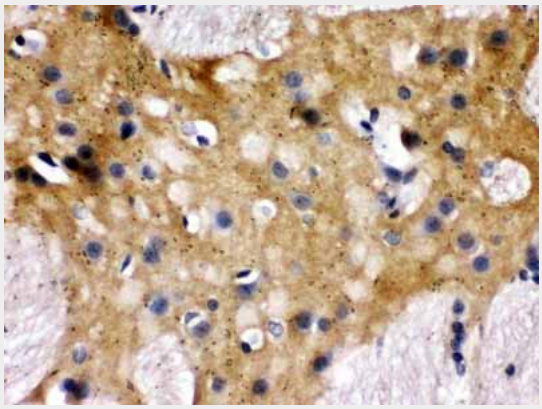


Anti- Munc18-1 Picoband antibody, ABO12505, Western blottingAll lanes: Anti Munc18-1 (ABO12505) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: PANC Whole Cell Lysate at 40ugLane 4: HEPG2 Whole Cell Lysate at 40ugLane 5: HELA Whole Cell Lysate at 40ugPredicted bind size: 67KDObserved 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

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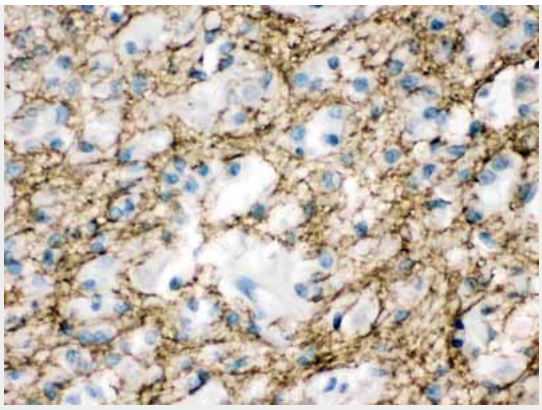

Anti- Munc18-1 Picoband antibody, ABO12505, IHC(P)IHC(P): Human Glioma Tissue

Anti-Munc18-1 Picoband Antibody - 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.