10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1696a

Specification

Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P61764
Other Accession	NP_003156, 6812, 20910 (mouse)
Reactivity	**Human, Mouse**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**67569**

Goat Anti-MUNC18 / STXBP1 (isoform a) 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

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MUNC18 / STXBP1 (isoform a) 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.

Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody - Protocols

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

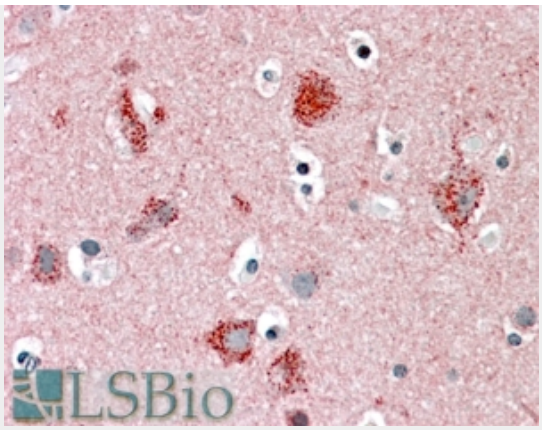
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody - Images



AF1696a (0.1µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



AF1696a (5µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. **This data is from a previous batch, not on sale.**



AF1696a (0.3µg/ml) staining of Mouse Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody - 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.

Goat Anti-MUNC18 / STXBP1 (isoform a) Antibody - References

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID 20471030.
Redox proteomic analysis of carbonylated brain proteins in mild cognitive impairment and early Alzheimer's disease. Sultana R, et al. Antioxid Redox Signal, 2010 Mar. PMID 19686046.
De novo STXBP1 mutations in mental retardation and nonsyndromic epilepsy. Hamdan FF, et al. Ann Neurol, 2009 Jun. PMID 19557857.
Proteomic analysis reveals Hrs ubiquitin-interacting motif-mediated ubiquitin signaling in multiple cellular processes. Pridgeon JW, et al. FEBS J, 2009 Jan. PMID 19019082.
Syntaxin 1A interaction with the dopamine transporter promotes amphetamine-induced dopamine efflux. Binda F, et al. Mol Pharmacol, 2008 Oct. PMID 18617632.