



# Unc18-1 (phospho Ser313) Monoclonal Antibody

<b>Catalog No</b>	BYmab-12639
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Applications</b>	WB
<b>Gene Name</b>	STXBP1
<b>Protein Name</b>	Syntaxin-binding protein 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MUNC-18a around the phosphorylation site of Ser313. AA range:279-328
<b>Specificity</b>	Phospho-Unc18-1 (S313) Monoclonal Antibody detects endogenous levels of Unc18-1 protein only when phosphorylated at S313.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	STXBP1; UNC18A; Syntaxin-binding protein 1; MUNC18-1; N-Sec1; Protein unc-18 homolog 1; Unc18-1; Protein unc-18 homolog A; Unc-18A; p67
<b>Observed Band</b>	65kD
<b>Cell Pathway</b>	Cytoplasm, cytosol . Membrane; Peripheral membrane protein.
<b>Tissue Specificity</b>	Brain and spinal cord. Highly enriched in axons.
<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:Bounds SYTL4 and STX1A.,tissue

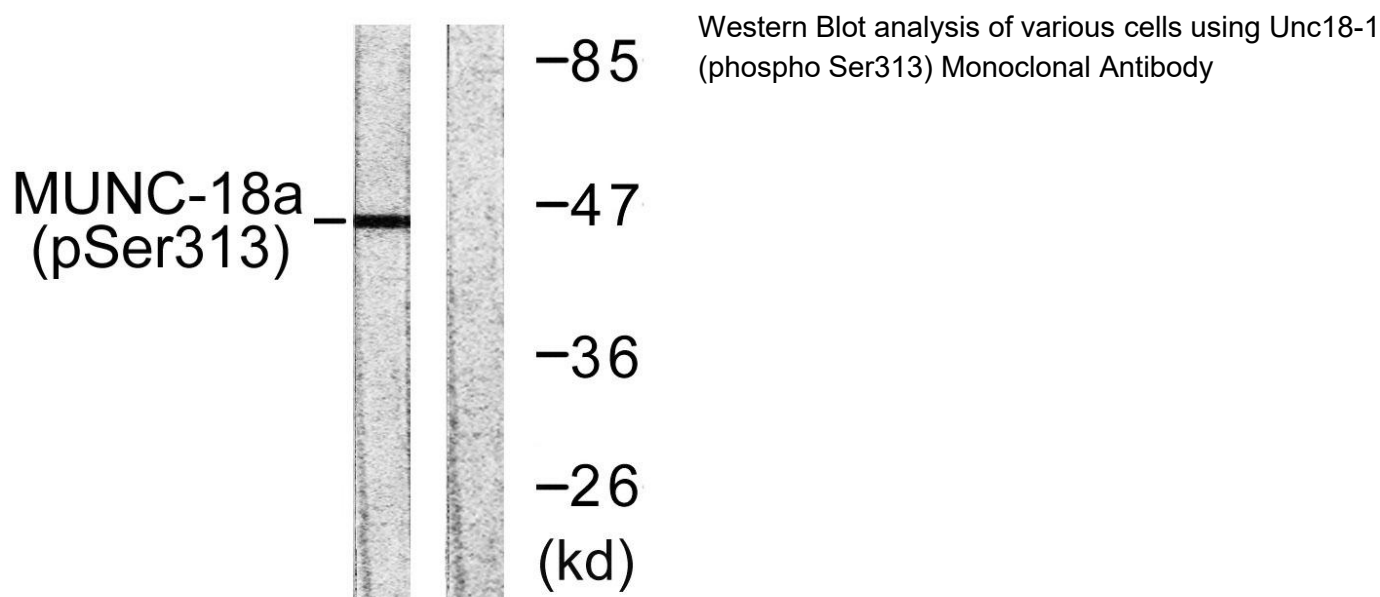
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<b>Background</b>	This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of neurotransmitters via regulation of syntaxin, a transmembrane attachment protein receptor. Mutations in this gene have been associated with infantile epileptic encephalopathy-4. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010],
<b>matters needing attention</b>	Avoid repeated freezing and thawing!
<b>Usage suggestions</b>	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



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