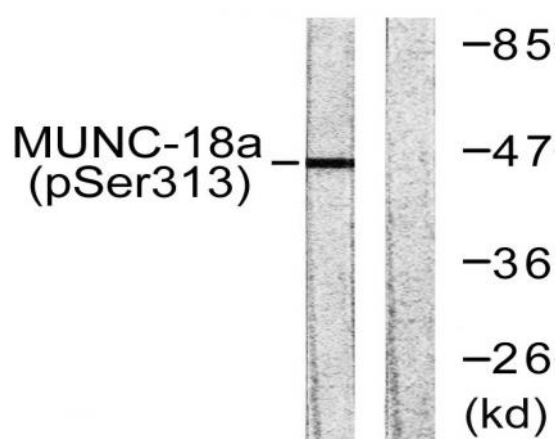


Unc18-1 (phospho Ser313) Polyclonal Antibody

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| Catalog No : | YP0311 |
| Reactivity : | Human;Mouse;Rat;Monkey |
| Applications : | WB;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 around the phosphorylation site of Ser313. AA range:279-328 |
| Specificity : | Phospho-Unc18-1 (S313) Polyclonal Antibody detects endogenous levels of Unc18-1 protein only when phosphorylated at S313. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications. |

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| 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) |
| Observed Band : | 65kD |
| 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



Western blot analysis of lysates from COS7 cells treated with PMA 125ng/ml 30', using MUNC-18a (Phospho-Ser313) Antibody. The lane on the right is blocked with the phospho peptide.