

## Unc18-1 Polyclonal Antibody

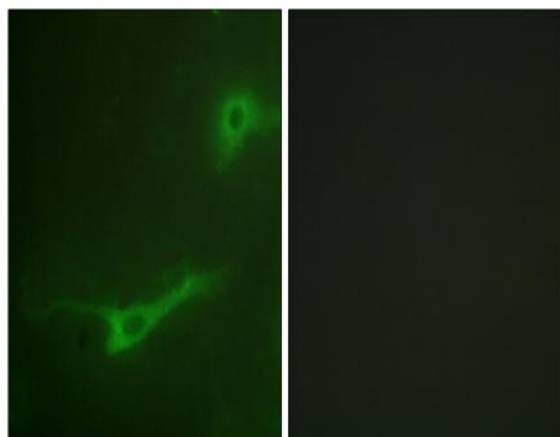
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| <b>Catalog No :</b>          | YT4822   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <b>Applications :</b>        | IHC;IF;ELISA   |
| <b>Target :</b>              | Unc18-1  |
| <b>Fields :</b>              | >>Synaptic vesicle cycle   |
| <b>Gene Name :</b>           | STXBP1   |
| <b>Protein Name :</b>        | Syntaxin-binding protein 1   |
| <b>Human Gene Id :</b>       | 6812   |
| <b>Human Swiss Prot No :</b> | P61764   |
| <b>Mouse Gene Id :</b>       | 20910  |
| <b>Mouse Swiss Prot No :</b> | O08599   |
| <b>Rat Gene Id :</b>         | 25558  |
| <b>Rat Swiss Prot No :</b>   | P61765   |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human MUNC-18a. AA range:279-328 |
| <b>Specificity :</b>         | Unc18-1 Polyclonal Antibody detects endogenous levels of Unc18-1 protein.                            |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                              |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.          |

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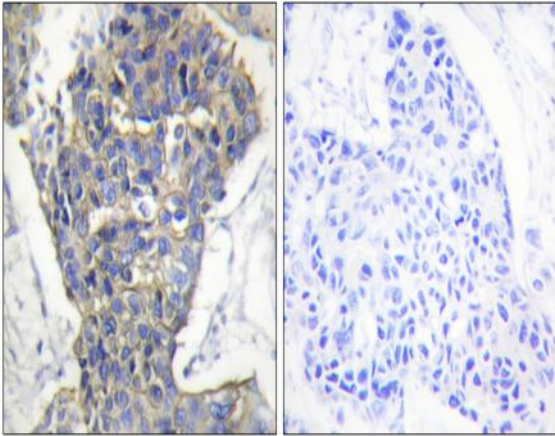
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| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Molecularweight :</b>      | 68kD   |
| <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>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:Binds SYTL4 and STX1A.,tissue specificity:Brain and spinal cord. Highly enriched in axons., |
| <b>Subcellular Location :</b> | Cytoplasm, cytosol . Membrane; Peripheral membrane protein.  |
| <b>Expression :</b>           | Brain and spinal cord. Highly enriched in axons.   |

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## Products Images



Immunofluorescence analysis of NIH/3T3 cells, using MUNC-18a Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MUNC-18a Antibody. The picture on the right is blocked with the synthesized peptide.