

SYP Polyclonal Antibody

Catalog No: YT4500

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Synaptophysin

Gene Name: SYP

Protein Name: Synaptophysin

P08247

Q62277

Human Gene Id: 6855

Human Swiss Prot

No:

Mouse Gene ld: 20977

Mouse Swiss Prot

No:

Rat Gene ld: 24804

Rat Swiss Prot No: P07825

Immunogen: The antiserum was produced against synthesized peptide derived from human

Synaptophysin. AA range:101-150

Specificity: SYP Polyclonal Antibody detects endogenous levels of SYP protein.

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. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

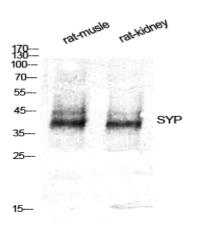
Best Tools for immunology Research **Concentration:** 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:** Observed Band: 38kD **Background:** This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with X-linked mental retardation (XLMR). [provided by RefSeg, Aug 2011], **Function:** domain: The calcium-binding activity is thought to be localized in the cytoplasmic tail of the protein., function: Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane., online information: Synaptophysin entry, PTM: Ubiquitinated; mediated by SIAH1 or SIAH2 and leading to its subsequent proteasomal degradation., similarity: Belongs to the synaptophysin/synaptobrevin family., similarity: Contains 1 MARVEL domain., subunit: Homohexamer or homotetramer., tissue specificity: Characteristic of a type of small (30-80 nm) neurosecretory vesicles, including presynaptic vesicles, but also vesicles of various neuroendocrine cells of both neuronal and epithelial phenotype., Subcellular Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Cell junction, synapse, synaptosome. Location: Expressed in the brain, with expression in the hippocampus, the neuropil in the **Expression:** dentate gyrus, where expression is higher in the outer half of the molecular layer than in the inner half, and in the neuropil of CA4 and CA3 (PubMed:8838578). Expressed in the putamen (at protein level) (PubMed:17296554). Sort:

No4: 1

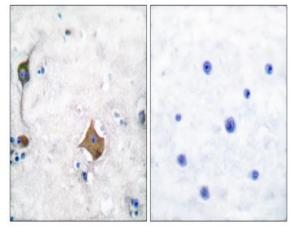
Host: Rabbit

Modifications: Unmodified

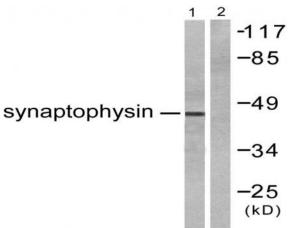
Products Images



Western Blot analysis of various cells using SYP Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Synaptophysin Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using Synaptophysin Antibody. The lane on the right is blocked with the synthesized peptide.