

SYP Polyclonal Antibody

Catalog No :	YT4500
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Synaptophysin
Gene Name :	SYP
Protein Name :	Synaptophysin
Human Gene Id :	6855
Human Swiss Prot No :	P08247
Mouse Gene Id :	20977
Mouse Swiss Prot No :	Q62277
Rat Gene Id :	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.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 38kD

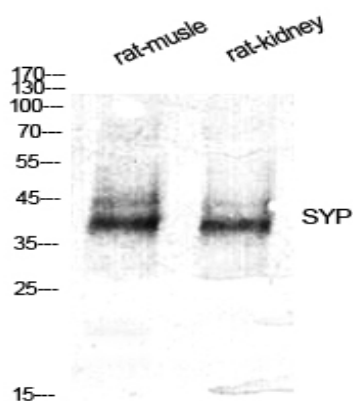
Background : This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with X-linked mental retardation (XLMR). [provided by RefSeq, 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.,

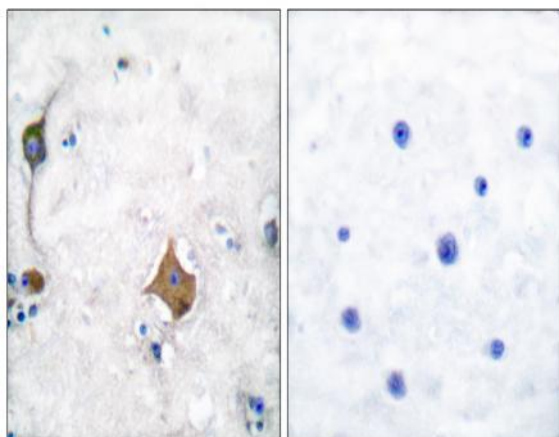
Subcellular Location : Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane ; Multi-pass membrane protein . Cell junction, synapse, synaptosome .

Expression : Expressed in the brain, with expression in the hippocampus, the neuropil in the 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).

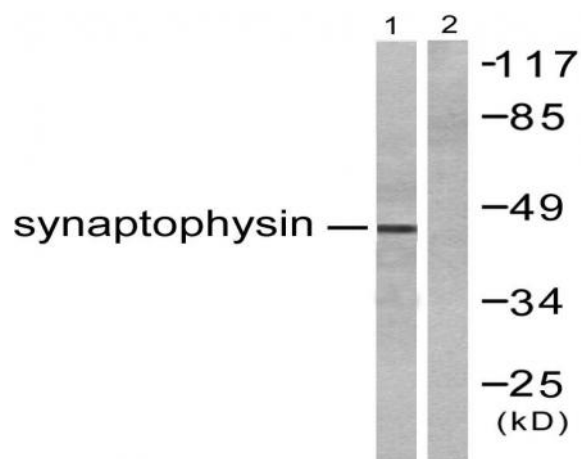
Products Images



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.