



Rabbit Anti-Synaptojanin antibody

SL11376R

Product Name:	Synaptojanin
Chinese Name:	磷酸肌醇磷酸酶蛋白INPP5G抗体
Alias:	5-trisphosphate 5-phosphatase 1; Inositol 5' phosphatase; INPP 5G; INPP5G; KIAA0910; Polyphosphoinositide phosphatase; Synaptic inositol 1 4 5 trisphosphate 5 phosphatase 1; Synaptic inositol 145 trisphosphate 5 phosphatase 1; Synaptic inositol-1 antibody Synaptic inositol-145-trisphosphate 5-phosphatase 1; Synaptojanin 1; Synaptojanin 1 polyphosphoinositide phosphatase; Synaptojanin-1; Synaptojanin1; Synj 1; Synj1; SYNJ1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	173kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Synaptojanin/INPP5G:481-580/1573
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The inositol polyphosphate 5-phosphatases selectively remove the phosphate from the 5-

position of various phosphatidylinositols, which generate second messengers in response to extracellular signals. Synaptojanins are characterized by an N-terminal SAC1-like sequence, a central 5-phosphate domain, and a unique C-terminal sequence and have been shown to use phosphatidylinositol 4,5-bisphosphate as a substrate. Synaptojanins exist as two isoforms, synaptojanin 1 and 2, which differ in the C-terminal domain, and each isoform has multiple variants produced by alternative splicing. Synaptojanin 1 is expressed as two major forms: the shorter is found in brain while the longer is expressed in peripheral tissues. Eight splice variants of synaptojanin 2 have been detected, including a brain specific isoform. Synaptojanins are thought to participate in the endocytosis of synaptic vesicles and the regulation of the actin cytoskeleton.

Function:

Inositol 5-phosphatase which has a role in clathrin-mediated endocytosis.

Subunit:

Interacts with ASH/GRB2. Interacts with PACSIN1, PACSIN2 and PACSIN3 (By similarity). Binds AMPH, SH3GL1, SH3GL2 and SH3GL3. Interacts with MYO1E (via SH3 domain).

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Concentrated at clathrin-coated endocytic intermediates in nerve terminals. Isoform 1 is more enriched than isoform 2 in developing brain as well as non-neuronal cells. Isoform 2 is very abundant in nerve terminals.

Similarity:

Belongs to the synaptojanin family.

In the central section; belongs to the inositol-1,4,5-trisphosphate 5-phosphatase family.

Contains 1 RRM (RNA recognition motif) domain.

Contains 1 SAC domain.

SWISS:

O43426

Gene ID:

8867

Database links:

[Entrez Gene: 104015](#) Mouse

[Entrez Gene: 85238](#) Rat

[SwissProt: Q8CHC4](#) Mouse

[SwissProt: Q62910](#) Rat

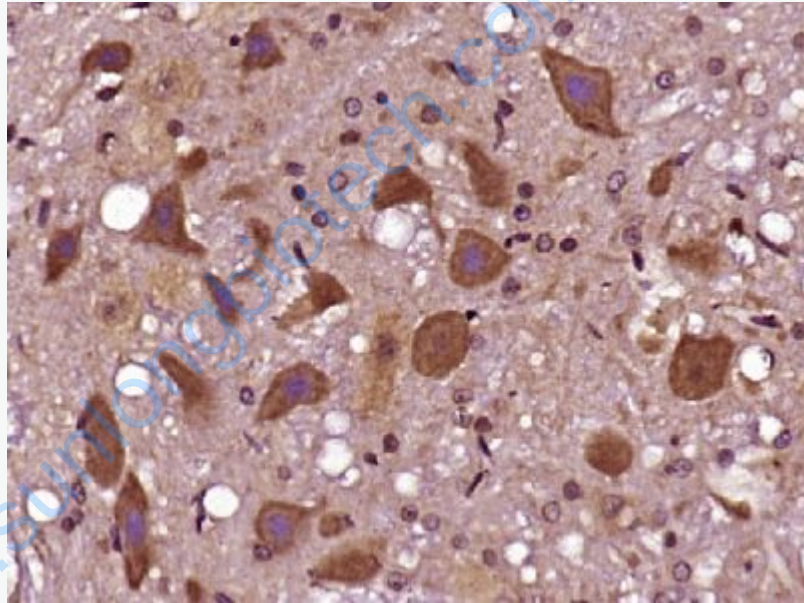
[Unigene: 187079](#) Mouse

[Unigene: 379876](#) Mouse

[Unigene: 22685](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Synaptojanin) Polyclonal Antibody, Unconjugated (SL11376R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.