



Rabbit Anti-Synaptojanin 2 antibody

SL11377R

Product Name:	Synaptojanin 2
Chinese Name:	磷酸肌醇磷酸酶蛋白INPP5H抗体
Alias:	INPP5H; 5-trisphosphate 5-phosphatase 2; Inositol phosphate 5' phosphatase 2; INPP 5H; INPP5H; KIAA0348; MGC44422; SJ2; Synaptic inositol 1 4 5 trisphosphate 5 phosphatase 2; Synaptic inositol-1; Synaptojanin-2; Synaptojanin2; SYNJ 2; Synj2; SYNJ2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=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:	165kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Synaptojanin 2:401-500/1496
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 may be involved in distinct membrane trafficking and signal transduction pathways. May mediate the inhibitory effect of Rac1 on endocytosis.

Subunit:

Binds to GRB2. Isoform 2A binds to SYNJ2BP/OMP25. Isoform 2B2 C-terminal proline-rich region binds to a variety of SH3 domain-containing proteins including SH3GL1, SH3GL2, SH3GL3 and GRB2.

Subcellular Location:

Membrane. Note=Predominantly associated with the particulate fractions.

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:

O15056

Gene ID:

8871

Database links:

[Entrez Gene: 8871](#) Human

[Omim: 609410](#) Human

[SwissProt: O15056](#) Human

[Unigene: 434494](#) Human

Important Note:

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