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Synaptojanin Rabbit pAb

Catalog # AP97740

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Rat
Predicted	Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	173 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Synaptojanin/INPP5G
Epitope Specificity	481-580/1573
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
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).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	8867
Other Names	A930006D20Rik; mKIAA0910; SYNJ1_MOUSE; Synj1; Synaptic inositol 1, 4, 5-trisphosphate 5-phosphatase 1; 3.1.3.36; Kiaa0910; SYNJ1_RAT; DEE53; EIEE53; INPP5G; PARK20; synaptojanin 1; phosphoinositide 5-phosphatase; inositol polyphosphate-5-phosphatase G

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
Name	Synaptojanin Rabbit pAb
Function	Inositol 5-phosphatase which has a role in clathrin-mediated endocytosis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.