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Synaptotagmin 5 Rabbit pAb

Catalog # AP98043

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00445
Other Accession	O00445
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42900
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Synaptotagmin 5
Epitope Specificity	201-300/386
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 synaptotagmin family.Contains 2 C2 domains.
SUBUNIT	Homodimer. Can also form heterodimers with SYT6. Interacts with both alpha- and beta-tubulin (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Synaptotagmins, such as SYT5, are a family of type III membrane proteins characterized by cytoplasmic repeats related to protein kinase C (see MIM 176960) regulatory (C2) domains, which are thought to bind calcium. Synaptotagmins may act both as negative regulators of vesicle fusion, allowing fusion in the presence of calcium, and as calcium receptors or sensor molecules (summary by Hudson and Birnbaum, 1995 [PubMed 7597049]).[supplied by OMIM, Feb 2011].

Additional Information

Gene ID	6861
Other Names	SytV; SYT5_HUMAN; SYT5; Synaptotagmin V (SytV); SYT5_MOUSE; Synaptotagmin IX; Syt9; synaptotagmin 5; synaptotagmin V
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.

Protein Information

Name	SYT5
Function	May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Regulates the Ca(2+)-dependent secretion of norepinephrine in PC12 cells. Required for export from the endocytic recycling compartment to the cell surface (By similarity).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass membrane protein. Recycling endosome membrane; Single-pass membrane protein. Note=In mast cells, localizes to the endocytic recycling compartment.

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