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Synaptogyrin 3 Rabbit pAb

Catalog # AP96283

Product Information

Application	WB, E
Primary Accession	O43761
Other Accession	O43761
Reactivity	Mouse
Predicted	Rat, Pig, Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24555
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Synaptogyrin 3
Epitope Specificity	101-200/229
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle (By similarity). Cell junction, synapse. Note=Found at the neuromuscular synapses (By similarity).
SIMILARITY	Belongs to the synaptogyrin family. Contains 1 MARVEL domain.
SUBUNIT	Interacts (via N-terminus) with SLC6A3 (via N-terminus) (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	The synaptogyrin family of proteins are integral membrane proteins containing four transmembrane regions. Synaptogyrins are tyrosine-phosphorylated proteins with two neuronal (Synaptogyrins 1 and 3) and one ubiquitous (Synaptogyrin-2) isoform. Synaptophysin and synaptogyrin represent the major constituents of synaptic vesicles. Synaptogyrin-1 is associated with presynaptic vesicles in neuronal cells. Synaptogyrin-2, also known as Cellugyrin has a tyrosine phosphorylated C-terminal cytoplasmic tail, and is involved in the regulation of membrane traffic in non-neuronal cells. Synaptogyrin-3 is expressed mainly in brain and placenta. The SYNGR4 gene encodes for the 234 amino acid protein Synaptogyrin-4.

Additional Information

Gene ID	9143
Other Names	SNG3_HUMAN; SYNGR3; SNG3_MOUSE; synaptogyrin 3
Target/Specificity	Expressed in brain and placenta.
Dilution	WB=1:500-2000,ELISA=1:5000-10000

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	SYNGR3 (HGNC:11501)
Function	May play a role in regulated exocytosis. May indirectly regulate the activity of the plasma membrane dopamine transporter SLC6A3 and thereby regulate dopamine transport back from the synaptic cleft into the presynaptic terminal.
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:Q8R191}; Multi-pass membrane protein. Synapse {ECO:0000250|UniProtKB:Q8R191} Note=Found at the neuromuscular synapses {ECO:0000250|UniProtKB:Q8R191}
Tissue Location	Expressed in brain and placenta.

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