

SYNGR2 Antibody

Catalog # ASC11047

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O43760
Other Accession	AAI05993 , 77415432
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	24810
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SYNGR2 antibody can be used for detection of SYNGR2 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	9144
Other Names	Synaptogyrin-2, Cellugyrin, SYNGR2
Target/Specificity	SYNGR2;
Reconstitution & Storage	SYNGR2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SYNGR2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SYNGR2 (HGNC:11499)
Function	May play a role in regulated exocytosis. In neuronal cells, modulates the localization of synaptophysin/SYP into synaptic-like microvesicles and may therefore play a role in the formation and/or the maturation of this vesicles. May also play a role in GLUT4 storage and transport to the plasma membrane.
Cellular Location	Cytoplasmic vesicle membrane {ECO:0000250 UniProtKB:O54980}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250 UniProtKB:O54980}; Multi-pass membrane protein. Note=Localizes to cytoplasmic vesicles associated with the recycling

Tissue Location Ubiquitous; low expression in brain.

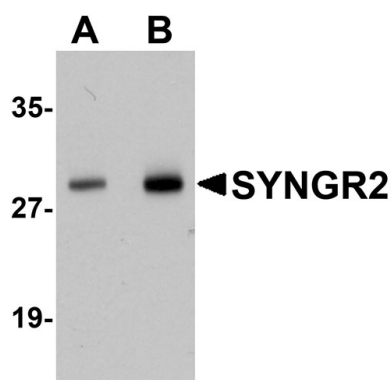
Background

SYNGR2 Antibody: Synaptogyrins comprise a family of tyrosine-phosphorylated membrane proteins with two neuronal (SYNGR1 and SYNGR3) and one ubiquitous (SYNGR2) members. SYNGR1 and -3 are synaptic vesicle proteins, residing in some cases on the same synaptic vesicle, and are thought to be involved in the regulation of neurotransmitter release. SYNGR2, by contrast, is absent from synaptic vesicles. The role and localization of a fourth synaptogyrin, SYNGR4, is unclear. SYNGR3 is predominantly expressed in brain and placenta. The exact function of SYNGR2 is unknown, but studies suggest that it may play a role in regulating membrane traffic in non-neuronal cells.

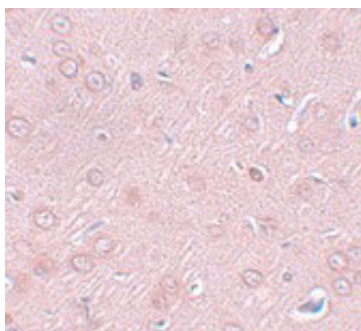
References

Belizaire R, Komanduri C, Wooten K, et al. Characterization of synaptogyrin 3 as a new synaptic vesicle protein. *J. Comp. Neurol.*2004; 470:266-81.
Kedra D, Pan HQ, Seroussi E, et al. Characterization of the human synaptogyrin gene family. *Hum. Genet.*1998; 103:131-41.

Images

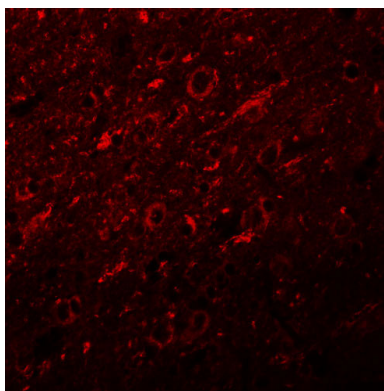


Western blot analysis of SYNGR2 in human lung tissue lysate with SYNGR2 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of SYNGR2 in rat brain tissue with SYNGR2 antibody at 2.5 µg/mL.

Immunofluorescence of SYNGR2 in rat brain tissue with SYNGR2 antibody at 20 µg/mL.



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