

ARG52434 anti-Synaptojanin 1 antibody [5H1]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [5H1] recognizes Synaptojanin 1
Tested Reactivity	Rat
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	5H1
Isotype	IgG1
Target Name	Synaptojanin 1
Species	Rat
Immunogen	Recombinant protein from the C-terminal region of rat synaptojanin 1.
Conjugation	Un-conjugated
Alternate Names	PARK20; Synaptojanin-1; EC 3.1.3.36; Synaptic inositol 1,4,5-trisphosphate 5-phosphatase 1; INPP5G

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100
	WB	1:1000
Application Note	Specific for the ~145k synaptojanin I protein in Western blots of Rat brain extracts. Immunolabeling blocked by preadsorption of antibody with the protein used to generate the antibody. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Protein G purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 85238 Rat](#)

[Swiss-port # Q62910 Rat](#)

Gene Symbol

SYNJ1

Gene Full Name

synaptojanin 1

Background

Synaptojanin is a phosphatidylinositol phosphatase involved in clathrinmediated endocytosis of synaptic vesicles. Synaptojanin 1 has two alternatively spliced isoforms; one that is ~ 145 kDa and is exclusively expressed in neurons, and the other ~ 170 kDa which is expressed in non-neuronal, peripheral tissues (Ramjaun AR & McPherson PS, 1996). The gene which encodes Synaptojanin 1, SYNJ1, has been mapped to chromosome 21 thus making it a candidate for involvement in Down's syndrome (DS). It has recently been demonstrated that Ts65Dn mice (the most commonly used model of DS) have altered phosphatidylinositol-4,5- bisphosphate metabolism. This defect is rescued by restoring SYNJ1 to disomy in the Ts65Dn mice (Voronov SV et al., 2008).

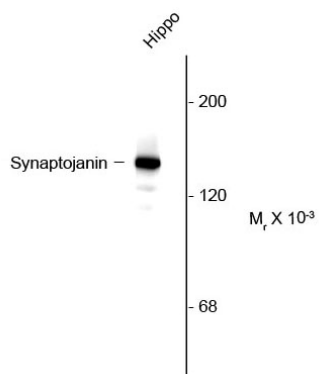
Research Area

Neuroscience antibody

Calculated Mw

173 kDa

Images



ARG52434 anti-Synaptojanin 1 antibody [5H1] WB image

Western Blot: rat hippocampal lysate showing specific immunolabeling of the ~145k synaptojanin I protein stained with Synaptojanin 1 antibody [5H1] (ARG52434).