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Datasheet for ABIN968694 anti-Synaptophysin antibody (AA 205-306)

4 Images

3 Publications



Overview

Quantity:	50 µg
Target:	Synaptophysin (SYP)
Binding Specificity:	AA 205-306
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Synaptophysin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Biolmaging (BI)

Product Details

Immunogen:	Rat Synaptophysin aa. 205-306
Clone:	2-Synaptophysin
lsotype:	lgG1
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Source of all serum proteins is from USDA inspected abattoirs located in the United States. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

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Product Details

chromatography.

Target Details

Synaptophysin (SYP)
Synaptophysin (SYP Products)
Synaptophysin is a major integral membrane glycoprotein that was isolated from the
presynaptic vesicles of neurons. The structure of synaptophysin includes four transmembrane
domains (TMD), an N-temrinal glycosylation site, nine repeats of basic tetrapeptide motifs
(GYGP), multiple collagenase sensitive sites (XGP), and several collagen-type tripeptides (GXX).
Synaptophysin mRNA is expressed in nervous tissues, as well as many neuroendocrine tumor
cell lines. In PC12 cells and brain synaptic vesicles, synaptophysin binds cholesterol, and
cholesterol depletion blocks the biogenesis of synaptic-like microvesicles. In addition,
synaptophysin binds dynamin in a Ca2+-dependent manner, and injection of peptides that
disrupt this interaction decreases neurotransmitter release during high-frequency stimulation o
squid neurons. This decrease in neurotransmitter release results from inhibition of
synaptophysin-dependent vesicle retrieval. Thus, synaptophysin may have important roles in
the biogenesis and recycling of synaptic vesicles. Synaptophysin is an integral membrane
glycoprotein with a calculated molecular weight of 33 kD, but has been reported to be observed
at 38-42 kD due to glycosylation. This antibody is routinely tested by western blot analysis.
38 kDa
Regulation of G-Protein Coupled Receptor Protein Signaling, Regulation of long-term Neuronal
Synaptic Plasticity
Related Products: ABIN968545, ABIN967389
For Research Use only

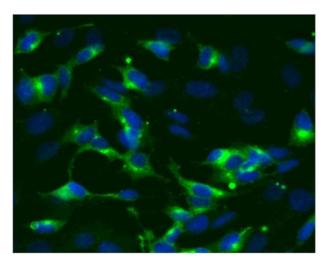
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.
Preservative:	Sodium azide

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Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.
Publications	
Product cited in:	Daly, Sugimori, Moreira, Ziff, Llinás: "Synaptophysin regulates clathrin-independent endocytosis of synaptic vesicles." in: Proceedings of the National Academy of Sciences of the United States of America , Vol. 97, Issue 11, pp. 6120-5, (2000) (PubMed).
	Thiele, Hannah, Fahrenholz, Huttner: "Cholesterol binds to synaptophysin and is required for biogenesis of synaptic vesicles." in: Nature cell biology , Vol. 2, Issue 1, pp. 42-9, (2000) (PubMed).
	Leube, Kaiser, Seiter, Zimbelmann, Franke, Rehm, Knaus, Prior, Betz, Reinke: "Synaptophysin: molecular organization and mRNA expression as determined from cloned cDNA." in: The EMBO journal , Vol. 6, Issue 11, pp. 3261-8, (1988) (PubMed).

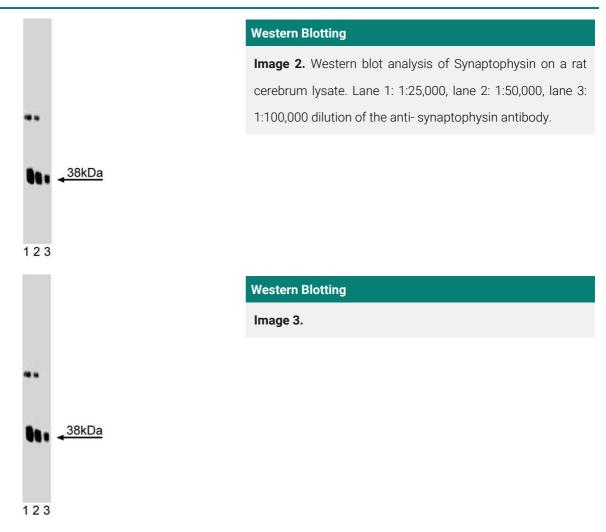
Images



Immunofluorescence

Image 1.

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Please check the product details page for more images. Overall 4 images are available for ABIN968694.

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