

Product datasheet

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ARG59114 anti-Synapsin 2 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Synapsin 2

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Synapsin 2

Species Human

Immunogen Recombinant protein corresponding to A497-D582 of Human Synapsin 2.

Conjugation Un-conjugated

Alternate Names Synapsin II; SYNII; Synapsin-2

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.5 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer 0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.

Preservative 0.05% Sodium azide

Stabilizer 5% BSA

Concentration 0.5 mg/ml

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 or below. 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

Gene Symbol SYN2

Gene Full Name synapsin II

Background This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which

associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of

neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family encodes a neuron-specific phosphoprotein that selectively binds to small synaptic vesicles in the presynaptic nerve terminal. Polymorphisms in this gene are associated with abnormal presynaptic function and related neuronal disorders, including autism, epilepsy, bipolar disorder and schizophrenia. Alternative splicing of this gene results in multiple transcript variants. The

tissue inhibitor of metalloproteinase 4 gene is located within an intron of this gene and is transcribed in

the opposite direction. [provided by RefSeg, Feb 2014]

Function Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to

function in the regulation of neurotransmitter release. May play a role in noradrenaline secretion by

sympathetic neurons (By similarity). [UniProt]

Calculated Mw 63 kDa

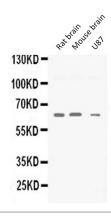
PTM Phosphorylation at Ser-10 dissociates synapsins from synaptic vesicles. Phosphorylation at Ser-425 by

MAPK1/ERK2 and/or MAPK3/ERK1 may play a role in noradrenaline secretion by sympathetic neurons

(By similarity). [UniProt]

Cellular Localization Cell junction, synapse. [UniProt]

Images



ARG59114 anti-Synapsin 2 antibody WB image

Western blot: Rat brain, Mouse brain and U87 lysates stained with ARG59114 anti-Synapsin 2 antibody at 0.5 $\mu g/ml$ dilution.