

Synapsin II Antibody (R32568)

Catalog No.	Formulation	Size
R32568	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q92777
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Synapsin II antibody is available for research use only.



Western blot testing of 1) rat brain, 2) mouse brain and 3) human U87 lysate with Synapsin II antibody at 0.5ug/ml. Predicted molecular weight ~63 kDa.

Description

Synapsin II is the collective name for synapsin IIa and synapsin IIb, two nearly identical phosphoproteins in the synapsin family that in humans are encoded by the SYN2 gene. 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the Synapsin II antibody to be titrated for optimal performance.

Immunogen

Amino acids A497-D582 from the human protein were used as the immunogen for the Synapsin II antibody.

Storage

After reconstitution, the Synapsin II antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.