

**Anti-Synapsin II Picoband Antibody**  
**Catalog # ABO11718****Specification**

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**Anti-Synapsin II Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q92777</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Synapsin-2(SYN2) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Synapsin II Picoband Antibody - Additional Information**

**Gene ID** 6854

**Other Names**

Synapsin-2, Synapsin II, SYN2

**Calculated MW**

62847 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cell junction, synapse.

**Tissue Specificity**

Central and peripheral nervous systems.

**Protein Name**

Synapsin-2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E. coli-derived human Synapsin II recombinant protein (Position: A497-D582). Human Synapsin II shares 93.1% and 89.7% amino acid (aa) sequence identity with mouse and rat Synapsin II, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Anti-Synapsin II Picoband Antibody - Protein Information**

**Name** SYN2

**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).

**Cellular Location**

Synapse.

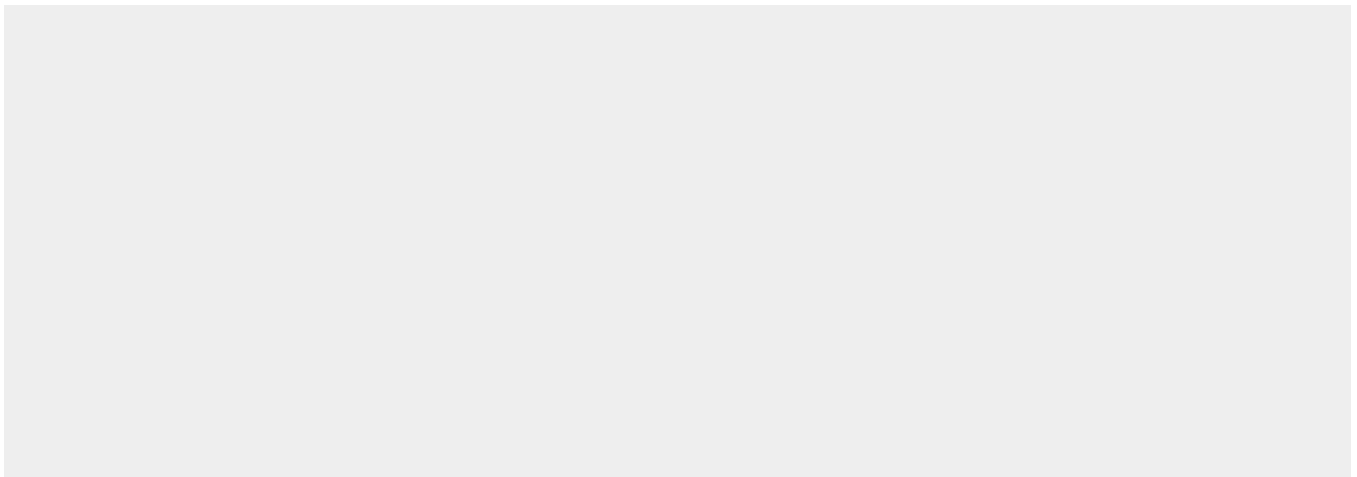
**Tissue Location**

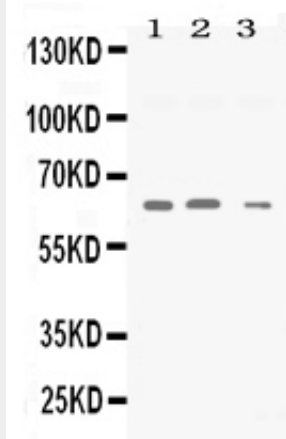
Central and peripheral nervous systems.

**Anti-Synapsin II Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Synapsin II Picoband Antibody - Images**



Western blot analysis of Synapsin II expression in rat brain extract (lane 1), mouse brain extract (lane 2) and U87 whole cell lysates (lane 3). Synapsin II at 63KD was detected using rabbit anti-Synapsin II Antigen Affinity purified polyclonal antibody (Catalog # ABO11718) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

#### **Anti-Synapsin II Picoband Antibody - Background**

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.