

Datasheet for ABIN4886735
anti-SYN2 antibody (AA 497-582)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	SYN2
Binding Specificity:	AA 497-582
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SYN2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Synapsin II/SYN2 Antibody Picoband®
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Synapsin II/SYN2 Antibody Picoband® (ABIN4886735). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: SYN2

Alternative Name: SYN2 ([SYN2 Products](#))

Background: Synonyms: Synapsin-2, Synapsin II, SYN2,
Tissue Specificity: Central and peripheral nervous systems.
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 ion.

Molecular Weight: 52, 70 kDa

Gene ID: 6854

UniProt: [Q92777](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
1. "Entrez Gene: SYN2 synapsin II". 2. Li L, Chin LS, Greengard P, Copeland NG, Gilbert DJ, Jenkins NA (July 1995). "Localization of the synapsin II (SYN2) gene to human chromosome 3 and mouse chromosome 6". Genomics 28 (2): 365-6.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. 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 #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).