

Anti-Synaptopodin/SYNPO Antibody Picoband®

Catalog Number: RP1069

About SYNPO

Synaptopodin is also known as SYNPO. The spine apparatus (SA) is a specialized form of endoplasmic reticulum (ER) that is found in a subpopulation of dendritic spines in central neurons. The SA consists of a series of stacked discs that are thought to be connected to each other and to the dendritic system of ER-tubules. The actin binding protein synaptopodin (which has originally been described in podocytes of the kidney) is an essential component of the SA. Mice that lack the gene for synaptopodin do not form a spine apparatus. The SA is believed to play a critical role in learning and memory. In summary, an important function of the spine apparatus is the regulation of plasticity at individual synapses, a process known as metaplasticity. The International Radiation Hybrid Mapping Consortium mapped the SYNPO gene to chromosome 5.

Overview

Product Name	Anti-Synaptopodin/SYNPO Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Synaptopodin/SYNPO Antibody catalog # RP1069. Tested in WB applications. This antibody reacts with Human, Mouse. 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q8N3V7

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Synaptopodin, different from the related mouse sequence by one amino acid, and identical to the related rat sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse

Anti-Synaptopodin/SYNPO Antibody Picoband® (RP1069) Images



Anti-Synaptopodin antibody, RP1069, Western blotting
All lanes: Anti Synaptopodin (RP1069) at 0.5ug/ml
Lane 1: Mosue Brain Tissue Lysate at 50ug
Lane 2: U87 Whole Cell Lysate at 40ug
Lane 3: HEPG2 Whole Cell Lysate at 40ug
Lane 4: 293T Whole Cell Lysate at 40ug
Predicted bind size: 99KD
Observed bind size: 99KD

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Anti-Synaptopodin/SYNPO Antibody

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