BOSTER BIOLOGICAL TECHNOLOGY
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Anti-SNAP25 Antibody Picoband®

Catalog Number: PA1315

About SNAP25

Synaptosome-associated protein of 25,000 daltons also known as SNAP-25 is a protein which in humans encodes a 25-kD protein of 206 amino acids. It was first investigated as a neuron-specific gene preferentially expressed in mouse hippocampus. The tSNARE (the target-membrane soluble NSF-attachment protein receptor, where NSF is N-ethylmaleimide-sensitive fusion protein) synaptosomal-associated protein of 25 kDa (SNAP-25) is expressed in pancreatic B-cells and its cleavage by botulinum neurotoxin E (BoNT/E) abolishes stimulated secretion of insulin. In the nervous system, two SNAP-25 isoforms (a and b) have been described, which are produced by alternative splicing. Nagy et al. (2004) identified mammalian Snap25a and Snap25b as targets of protein kinase A, a key regulator of neurosecretion that primes slowly releasable pools and readily releasable pools of secretory vesicles. SNAP-25 inhibits P/Q- and L-type voltage-gated calcium channels located presynaptically and interacts with the synaptotagmin C2B domain in Ca2+-independent fashion. In glutamatergic synapses SNAP-25 decreases the Ca2+ responsiveness, while it is naturally absent in GABAergic synapses.

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Overview

Product Name	Anti-SNAP25 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SNAP25 Antibody catalog # PA1315. Tested in IHC, 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.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

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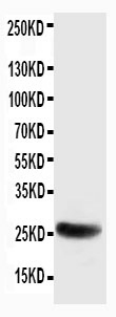
Uniprot ID	P60880

Technical Details

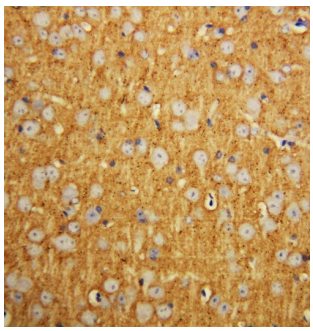
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SNAP25, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human, Mouse Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

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Anti-SNAP25 Antibody Picoband® (PA1315) Images



Anti-SNAP25 antibody, PA1315, Western blottingWB: Rat Brain Tissue Lysate



Anti-SNAP25 antibody, PA1315, IHC(P)IHC(P): Rat Brain Tissue

2 Publications Citing This Product

1. PubMed ID: 32930942, Guan Y,Chen X,Zhao B,Shi Y,Han F.What Happened in the Hippocampal Axon in a Rat Model of Posttraumatic Stress Disorder.Cell Mol Neurobiol.2020 Sep 15.doi:10.1007/s10571-020-00960-w.Epub ahead of print.PMID:32930942.

2. PubMed ID: 28761431, Zhong ZQ, Xiang Y, Hu X, Wang YC, Zeng X, Wang XM, Xia QJ, Wang TH, Zhang X. Neural Regen Res. 2017 Jun;12(6):969-976. doi: 10.4103/1673-5374.208592. Synaptosomal-associated protein 25 may be an intervention target for improving sensory and locomo...

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