

## 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 Ca<sup>2+</sup>-independent fashion. In glutamatergic synapses SNAP-25 decreases the Ca<sup>2+</sup> responsiveness, while it is naturally absent in GABAergic synapses.

### Overview

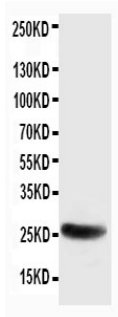
Product Name	Anti-SNAP25 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SNAP25 Antibody catalog # PA1315. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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 Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *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
Uniprot ID	P60880

### Technical Details

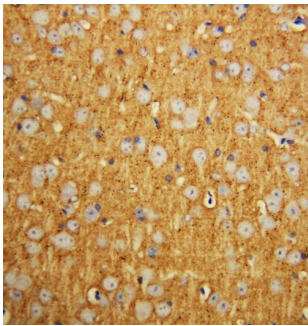
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SNAP25, identical to the related rat and mouse sequences.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) 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

## 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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Anti-SNAP25 Antibody

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