

Anti-SNAP25 Antibody Picoband® APC Conjugated

Catalog Number: A01625-APC

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. It is 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.

Overview

Product Name	Anti-SNAP25 Antibody Picoband® APC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P60880

Technical Details

Immunogen	E. coli-derived human SNAP25 recombinant protein (Position:M1-L203).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

4 Publications Citing This Product

1. PubMed ID: 10.1016/j.tox.2017.03.021, Disruption of glutamate neurotransmitter transmission is modulated by SNAP-25 in benzo[a]pyrene-induced neurotoxic effects
2. PubMed ID: 10.1080/00207454.2017.1387115, Effects of spontaneous recurrent seizures on cognitive function via modulation of SNAREs expression
3. 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.

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