

Rabbit SNAP25 Polyclonal Antibody | anti-SNAP25 antibody

SNAP25 Antibody

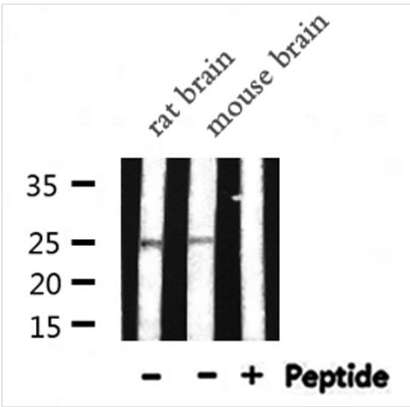
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325950	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SNAP25; Polyclonal Antibody; SNAP25 Antibody; bA416N4.2; Bdr; CMS18; dJ1068F16.2; FLJ23079; HGNC:11132; MGC105414; MGC139754; Resistance to inhibitors of cholinesterase 4 homolog; RIC 4; RIC4; SEC 9; SEC9; SNAP 25; SNAP; SNAP-25; SNAP-25B; SNP 25; SNP25; SNP25_HUMAN; sp; SUP; Super protein; Synaptosomal associated 25 kDa protein; Synaptosomal associated protein; Synaptosomal associated protein 25; Synaptosomal associated protein 25kDa; Synaptosomal-associated 25 kDa protein; Synaptosomal-associated protein 25; Synaptosomal-associated protein; 25-KD; anti-SNAP25 antibody

PRODUCT SPECIFICATIONS

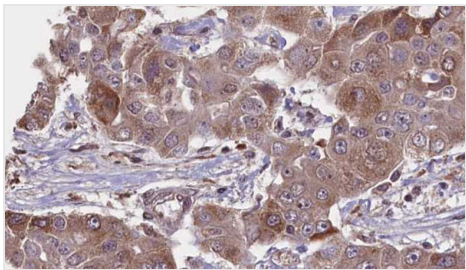
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SNAP25 antibody detects endogenous levels of total SNAP25
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	206
Applicable Applications for anti-SNAP25 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SNAP25
Subcellular Location	Cytoplasm > Perinuclear Region. Cell Membrane. Cell Junction > Synapse > Synaptosome. Membrane association requires palmitoylation. Expressed throughout cytoplasm, concentrating at the perinuclear region.
Tissue Specificity	Neurons of the neocortex, hippocampus, piriform cortex, anterior thalamic nuclei, pontine nuclei, and granule cells of the cerebellum.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of SNAP25 expression in various lysates



IF (Immunofluorescence)
AAA325950 staining RAW264.7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)
AAA325950 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SNAP25 antibody

Description: The 25 kDasynaptosome-associated protein (SNAP25) is a target membrane soluble, N-ethylmaleimide-sensitive factor attachment protein receptor (t-SNARE) that is found on neuronal presynaptic membranes. SNAP25 forms a core complex with the SNARE proteins syntaxin and synaptobrevin to mediate synaptic vesicle fusion with the plasma membrane during Ca2+-dependent exocytosis (1). This complex is responsible for exocytosis of the neurotransmitter gamma-aminobutyric acid (GABA). Neurotransmitter release is inhibited by proteolysis of SNAP25 by botulinum toxins A and E (2). SNAP25 plays a secondary role as a Q-SNARE involved in endosome fusion; the protein is associated with genetic susceptibility to attention-deficit hyperactivity disorder (ADHD) (3).

Function: t-SNARE involved in the molecular regulation of neurotransmitter release. May play an important role in the synaptic function of specific neuronal systems. Associates with proteins involved in vesicle docking and membrane fusion. Regulates plasma membrane recycling through its interaction with CENPF. Modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 in pancreatic beta cells.

Subunit Structure: Part of the SNARE core complex containing SNAP25, VAMP2 and STX1A; this complex binds CPLX1 (PubMed:11832227). Found in a complex containing SYT1, SV2B and syntaxin-1 (By similarity). Found in a ternary complex with STX1A and VAMP8 (By similarity). Isoform 1 and isoform 2 interact with BLOC1S6 (PubMed:19546860). Interacts with CENPF (By similarity). Interacts with EQTN (By similarity). Interacts with HGS (By similarity). Interacts with KCNB1 (via N-terminus); reduces the voltage-dependent potassium channel KCNB1 activity in pancreatic beta cells (By similarity). Interacts with OTOF (By similarity). Interacts with RIMS1 (By similarity). Interacts with SNAPIN (By similarity). Interacts with STXBP6 (By similarity). Interacts with TRIM9 (By similarity). Interacts with ZDHHC13 (via ANK repeats) (By similarity). Interacts with ZDHHC17 (via ANK repeats) (PubMed:28882895, PubMed:28757145). Interacts with PLCL1 (via C2 domain) (By similarity). Associates with the BLOC-1 complex (PubMed:19546860). Interacts with PRRT2; this interaction may impair the formation of the SNARE complex (PubMed:22832103, PubMed:25915028).

Post-translational Modifications: Palmitoylated (PubMed:28757145). Cys-85 appears to be the main site, and palmitoylation is required for membrane association (By similarity).

Similarity: Belongs to the SNAP-25 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1018443229
NCBI GeneID	6616
NCBI Accession #	NP_001309831.1
NCBI GenBank Nucleotide #	NM_001322902.1
UniProt Accession #	P60880; P13795; P36974; P70557; P70558; Q53EM2; Q5U0B5; Q8IXK3; Q96FM2; B2RAU4; D3DW16; D3DW17
Molecular Weight	Observed: 25 kDa Predicted: 24 kDa
NCBI Official Full Name	synaptosomal-associated protein 25 isoform SNAP25A
NCBI Official Synonym Full Names	synaptosome associated protein 25
NCBI Official Symbol	SNAP25
NCBI Official Synonym Symbols	SUP; RIC4; SEC9; SNAP; CMS18; RIC-4; SNAP-25; bA416N4.2; dJ1068F16.2
NCBI Protein Information	synaptosomal-associated protein 25
UniProt Protein Name	Synaptosomal-associated protein 25
UniProt Gene Name	SNAP25
UniProt Synonym Gene Names	SNAP; SNAP-25; SUP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/snap25-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325950>