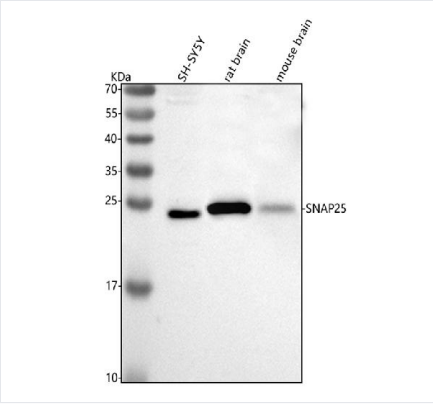
SNAP25 Antibody – Rabbit Polyclonal

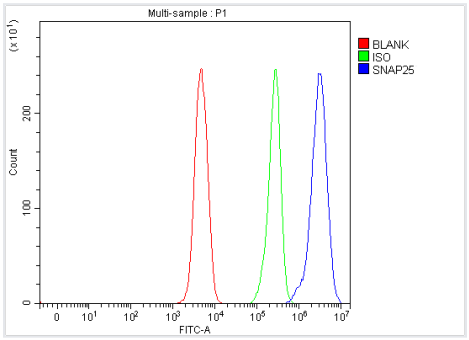
PRODUCT OVERVIEW

Product Name	SNAP25, Polyclonal Antibody
Full Product Name	Anti-SNAP25 Antibody Picoband
Product Gene Name	anti-SNAP25 antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	23,315 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (10199477..10288066). Location: 20p12-p11.2
OMIM	600322
3D Structure	ModBase 3D Structure for P60880
Immunogen	E coli-derived human SNAP25 recombinant protein (Position: R31-L203). Human SNAP25 shares 100% amino acid (aa) sequence identity with both mouse and rat SNAP25.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-SNAP25 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.

Applications Tested/Suitable for anti-SNAP25 antibody	ELISA (EIA), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-SNAP25 antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug /1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-SNAP25 antibody	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.
Product References and Citations for anti-SNAP25 antibody	1. An, S. J., Almers, W. Tracking SNARE complex formation in live endocrine cells. Science 306: 1042-1046, 2004. 2. Bark, I. C., Wilson, M. C. Human cDNA clones encoding two different isoforms of the nerve terminal protein SNAP-25. Gene 139: 291-292, 1994.3. Barr, C. L., Feng, Y., Wigg, K., Bloom, S., Roberts, W., Malone, M., Schachar, R., Tannock, R., Kennedy, J. L. Identification of DNA variants in the SNAP-25 gene and linkage study of these polymorphisms and attention-deficit hyperactivity disorder. Molec. Psychiat. 5: 405-409, 2000.
Other Notes	Small volumes of anti-SNAP25 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SNAP25 purchase	MBS1758214 is an antibody targeting SNAP25. Also known as Anti-SNAP25 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-SNAP25 antibody
Figure 1. Western blot analysis of SNAP25 using anti-SNAP25 antibody (MBS1758214).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human SH-SY5Y whole cell lysates,Lane 2: rat brain tissue lysates,Lane 3: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SNAP25 antigen affinity purified polyclonal antibody (#MBS1758214) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for SNAP25 at approximately 24 kDa. The expected band size for SNAP25 is at 24 kDa.



Flow Cytometry (FC/FACS) of anti-SNAP25 antibody
Figure 2. Flow Cytometry analysis of SH-SY5Y cells using anti-SNAP25 antibody (MBS1758214).Overlay histogram showing SH-SY5Y cells stained with MBS1758214 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SNAP25 Antibody (MBS1758214, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SNAP25. It may not necessarily be applicable to this product.

NCBI GI #	18765733
NCBI GeneID	6616
NCBI Accession #	NP_003072.2
UniProt Primary Accession #	P60880
UniProt Secondary Accession #	P13795; P36974; P70557; P70558; Q53EM2; Q5U0B5; Q8IXK3; Q96FM2; B2RAU4; D3DW16; D3DW17

UniProt Related Accession #	P60880
GenBank Nucleotide #	NM_003081.3
NCBI Official Full Name	synaptosomal-associated protein 25 isoform SNAP25A
NCBI Official Synonym Full Names	synaptosomal-associated protein, 25kDa
NCBI Official Symbol	SNAP25
NCBI Official Synonym Symbols	RIC4; SEC9; SNAP; RIC-4; SNAP-25; bA416N4.2; dJ1068F16.2
UniProt Protein Name	Synaptosomal-associated protein 25
UniProt Synonym Protein Names	Super protein; SUP; Synaptosomal-associated 25 kDa protein
Protein Family	Synaptosomal-associated protein
UniProt Gene Name	SNAP25
UniProt Synonym Gene Names	SNAP; SNAP-25; SUP
UniProt Entry Name	SNP25_HUMAN
NCBI Protein Information	synaptosomal-associated protein 25; SUP; super protein; resistance to inhibitors of cholinesterase 4 homolog
NCBI Summary for SNAP25	Synaptic vesicle membrane docking and fusion is mediated by SNAREs (soluble N-ethylmaleimide-sensitive factor attachment protein receptors) located on the vesicle membrane (v-SNAREs) and the target membrane (t-SNAREs). The assembled v-SNARE/t-SNARE complex consists of a bundle of four helices, one of which is supplied by v-SNARE and the other three by t-SNARE. For t-SNAREs on the plasma membrane, the protein syntaxin supplies one helix and the protein encoded by this gene contributes the other two. Therefore, this gene product is a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. Two alternative transcript variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for SNAP25	SNAP-25: a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. May play an important role in the synaptic function of specific neuronal systems. Part of the SNARE core complex containing SNAP25, VAMP2 and syntaxin 1A. Associates with proteins involved in vesicle docking and membrane fusion. Two alternatively spliced isoforms have been described. Protein type: Vesicle Chromosomal Location of Human Ortholog: 20p12-p11.2 Cellular Component: SNARE complex; presynaptic membrane; neuron projection; growth cone; membrane; perinuclear region of cytoplasm; cytoplasm; plasma membrane; trans-Golgi network; cell junction; cytosol; vesicle Molecular Function: SNAP receptor activity; protein binding; syntaxin-1 binding; calcium-dependent protein binding Biological Process: synaptic vesicle fusion to presynaptic membrane; synaptic transmission; synaptic vesicle exocytosis; glutamate secretion; neurotransmitter secretion; energy reserve metabolic process; neurotransmitter uptake; pathogenesis; synaptic vesicle priming; regulation of insulin secretion; synaptic vesicle docking during exocytosis Disease: Myasthenic Syndrome, Congenital, 18
Research Articles on SNAP25	**1.** PRIP inhibits regulated exocytosis through the interaction of its C2 domain with syntaxin 1 and SNAP-25, potentially competing with accessory proteins such as synaptotagmin I and by directly inhibiting trans-SNARE complex formation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/snap25/1758214