10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SNAP25 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SNAP25.
Catalog # AT3972a

Product Information

Application	WB, E
Primary Accession	P60880
Other Accession	BC010647
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4A3
Calculated MW	23315

Additional Information

Gene ID	6616
Other Names	Synaptosomal-associated protein 25, SNAP-25, Super protein, SUP, Synaptosomal-associated 25 kDa protein, SNAP25, SNAP
Target/Specificity	SNAP25 (AAH10647, 31 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SNAP25 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

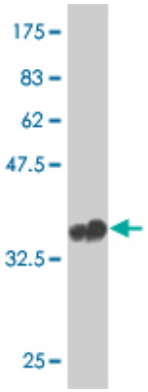
Background

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.

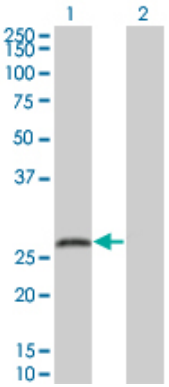
References

Association Among SNAP-25 Gene DdeI and MnlI Polymorphisms and Hemodynamic Changes During Methylphenidate Use: A Functional Near-Infrared Spectroscopy Study. Oner O, et al. J Atten Disord, 2010 Aug 2. PMID 20679152.An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014.An association study between SNAP-25 gene and Attention-Deficit Hyperactivity Disorder. Zhang H, et al. Eur J Paediatr Neurol, 2010 Jul 2. PMID 20599404.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Association between a synaptosomal protein (SNAP-25) gene polymorphism and verbal memory and attention in patients with endogenous psychoses and mentally healthy subjects. Golimbet VE, et al. Neurosci Behav Physiol, 2010 May. PMID 20333500.

Images

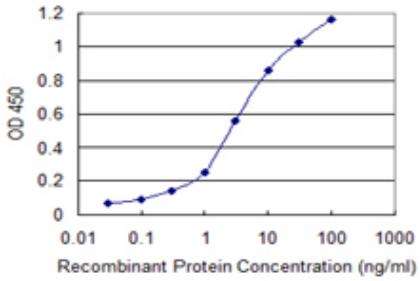


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



Western Blot analysis of SNAP25 expression in transfected 293T cell line by SNAP25 monoclonal antibody (M01), clone 4A3.

Lane 1: SNAP25 transfected lysate(23.315 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged SNAP25 is 0.03 ng/ml as a capture antibody.