ARG56942
anti-SNAP25 antibody [4E11]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4E11] recognizes SNAP25
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	4E11
Isotype	IgG1, kappa
Target Name	SNAP25
Species	Human
Immunogen	Recombinant fragment around aa. 1-206 of Human SNAP25.
Conjugation	Un-conjugated
Alternate Names	Super protein; Synaptosomal-associated 25 kDa protein; bA416N4.2; RIC4; SUP; dJ1068F16.2; SNAP; RIC-4; CMS18; SEC9; SNAP-25; Synaptosomal-associated protein 25

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

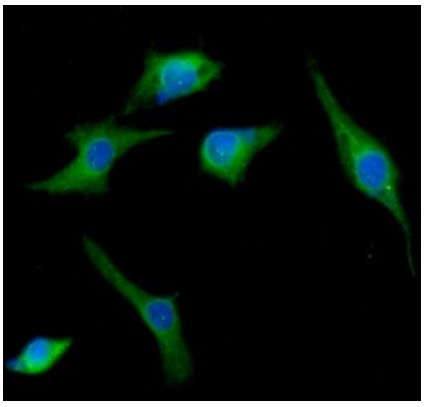
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 20614 Mouse GeneID: 6616 Human Swiss-port # P60879 Mouse Swiss-port # P60880 Human
Gene Symbol	SNAP25
Gene Full Name	synaptosomal-associated protein, 25kDa
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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Calculated Mw	23 kDa
PTM	Palmitoylated. Cys-85 appears to be the main site, and palmitoylation is required for membrane association (By similarity).

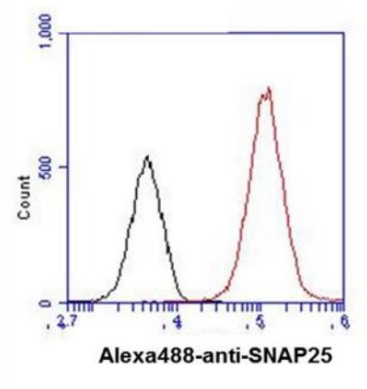
Images



ARG56942 anti-SNAP25 antibody [4E11] ICC/IF image

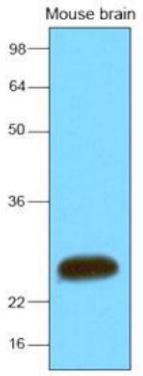
Immunoflorescense: U87MG cell line stained with ARG56942 anti-SNAP25 antibody [4E11] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



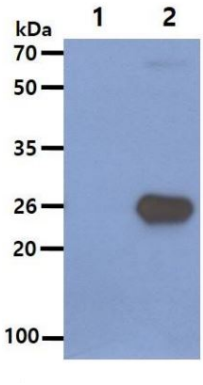
ARG56942 anti-SNAP25 antibody [4E11] FACS image

Flow Cytometry: U87MG cell line stained with ARG56942 anti-SNAP25 antibody [4E11] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG56942 anti-SNAP25 antibody [4E11] WB image

Western blot: 30 µg of Mouse brain stained with ARG56942 anti-SNAP25 antibody [4E11] at 1:2000.



ARG56942 anti-SNAP25 antibody [4E11] WB image

Western blot: 10 µg of 1) 293T cell lysate, 2) SNAP25 Transfected 293T cell lysate stained with ARG56942 anti-SNAP25 antibody [4E11] at 1:3000.