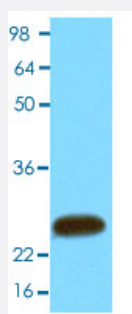


# SNAP25 monoclonal antibody, clone 4E11

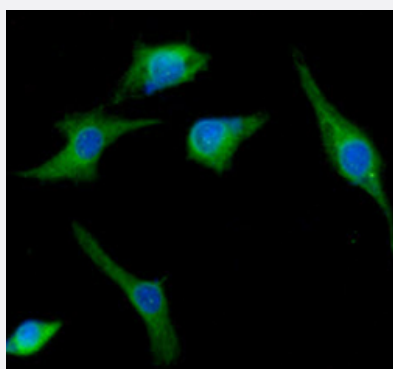
Catalog # MAB1105      Size 100 uL

## Applications



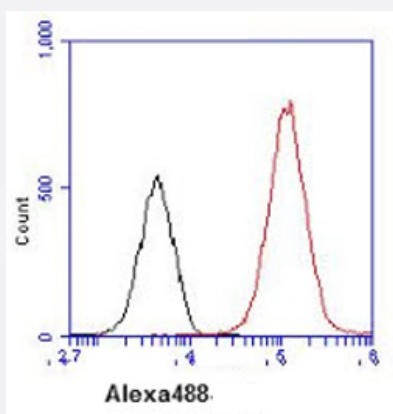
### Western Blot (Tissue lysate)

Western blot analysis of mouse brain tissue lysate.



### Immunofluorescence

Immunofluorescence analysis of U87 MG cells. The cell was stained with SNAP25 monoclonal antibody, clone 4E11 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



### Flow Cytometry

Flow cytometric analysis of U87 MG cell line, staining at 2-5 ug for 1x10<sup>6</sup> cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

## Specification

|                     |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Mouse monoclonal antibody raised against full length recombinant SNAP25.                                                                                   |
| Immunogen           | Recombinant protein corresponding to full length human SNAP25.                                                                                             |
| Host                | Mouse                                                                                                                                                      |
| Reactivity          | Human, Mouse                                                                                                                                               |
| Form                | Liquid                                                                                                                                                     |
| Purification        | Protein G purification                                                                                                                                     |
| Isotype             | IgG1, kappa                                                                                                                                                |
| Recommend Usage     | ELISA<br>Flow Cytometry<br>Immunocytochemistry<br>Immunofluorescence<br>Western Blot<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).                                                                                                         |
| Storage Instruction | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing.             |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                     |

## Applications

- Western Blot (Tissue lysate)

Western blot analysis of mouse brain tissue lysate.

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence analysis of U87 MG cells. The cell was stained with SNAP25 monoclonal antibody, clone 4E11 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of U87 MG cell line, staining at 2-5 ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

## Gene Info — SNAP25

Entrez GeneID [6616](#)

GeneBank Accession# [NM\\_130811](#)

Protein Accession# [NP\\_570824](#)

Gene Name SNAP25

Gene Alias FLJ23079, RIC-4, RIC4, SEC9, SNAP, SNAP-25, bA416N4.2, dJ1068F16.2

Gene Description synaptosomal-associated protein, 25kDa

Omim ID [600322](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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]

**Other Designations** OTTHUMP00000030267|OTTHUMP00000030268|resistance to inhibitors of cholinesterase 4 homolog|synaptosomal-associated protein 25

## Publication Reference

- [Expression and function of SNAP-25 as a universal SNARE component in GABAergic neurons.](#)

Tafoya LC, Mameli M, Miyashita T, Guzowski JF, Valenzuela CF, Wilson MC.

Journal of Neuroscience 2006 Jul; 26(30):7826.

Application: IF, IHC, WB, Mouse, Mouse hippocampal neurons, Hippocampus, Thalamus

- [Increased association of synaptosome-associated protein of 25 kDa with syntaxin and vesicle-associated membrane protein following acrosomal exocytosis of sea urchin sperm.](#)

Schulz JR, Sasaki JD, Vacquier VD.

The Journal of Biological Chemistry 1998 Sep; 273(38):24355.

Application: WB-Ce, Sea Urchin, Sperm

## Pathway

- [SNARE interactions in vesicular transport](#)

## Disease

- [Alzheimer disease](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Memory](#)
- [Mental Disorders](#)
- [Mental Retardation](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [NARP](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Obsessive-Compulsive Disorder](#)

- [Osteoporosis](#)
- [Personality Assessment](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Reaction Time](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Verbal Learning](#)
- [Weight Gain](#)