

## Product datasheet for **TA502970M**

### **SNAP25 Mouse Monoclonal Antibody [Clone ID: OTI4B5]**

#### **Product data:**

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI4B5  |
| Applications:           | FC, IF, IHC, WB   |
| Recommended Dilution:   | WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100  |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Mouse   |
| Isotype:                | IgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human SNAP25 (NP_003072) produced in HEK293T cell.   |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 1.1 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 23.2 kDa  |
| Gene Name:              | synaptosome associated protein 25   |
| Database Link:          | <a href="#">NP_003072</a><br><a href="#">Entrez Gene 20614 Mouse</a> <a href="#">Entrez Gene 25012 Rat</a> <a href="#">Entrez Gene 6616 Human</a><br><a href="#">P60880</a> |



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**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]

**Synonyms:**

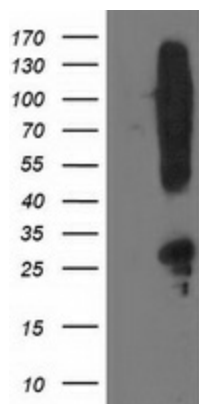
bA416N4.2; dj1068F16.2; RIC-4; RIC4; SEC9; SNAP; SNAP-25

**Protein Families:**

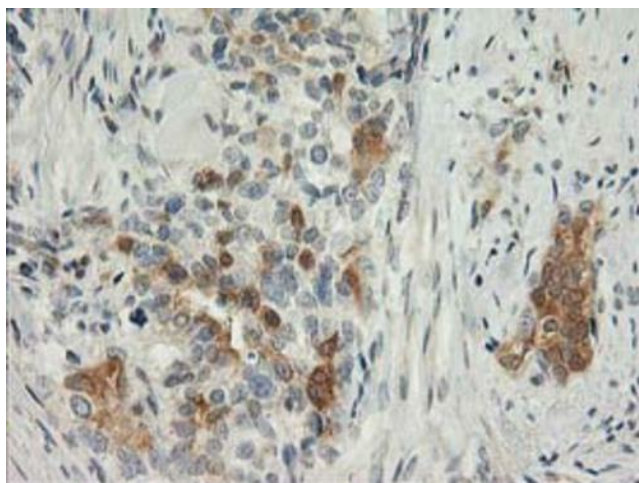
Druggable Genome

**Protein Pathways:**

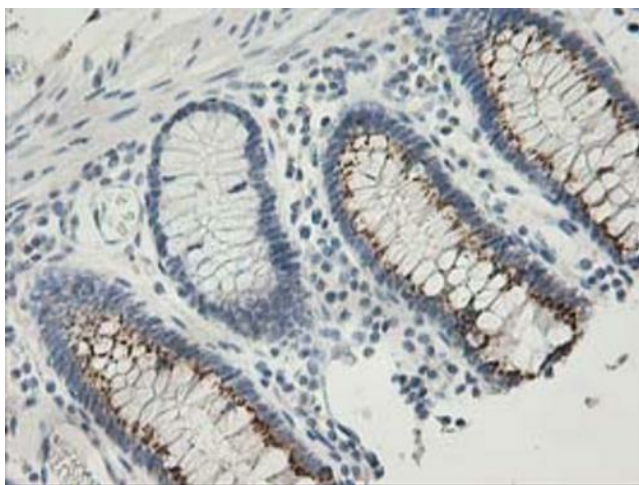
SNARE interactions in vesicular transport

**Product images:**


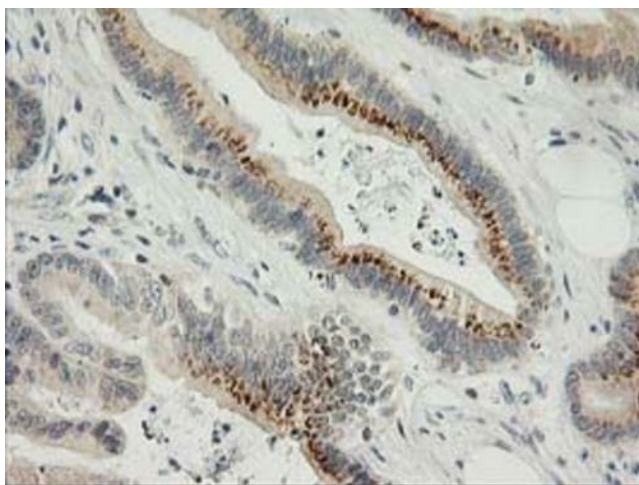
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SNAP25 ([RC202068], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SNAP25. Positive lysates [LY418912] (100ug) and [LC418912] (20ug) can be purchased separately from OriGene.



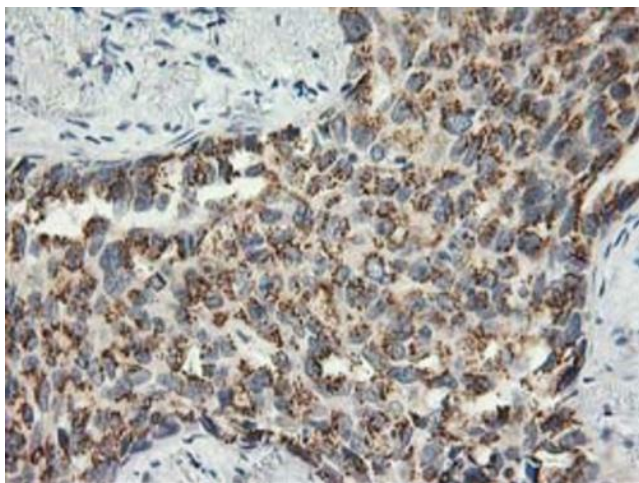
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-SNAP25 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



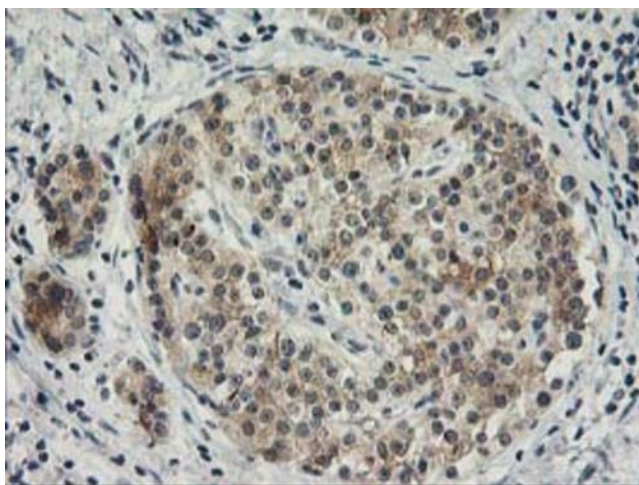
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-SNAP25 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



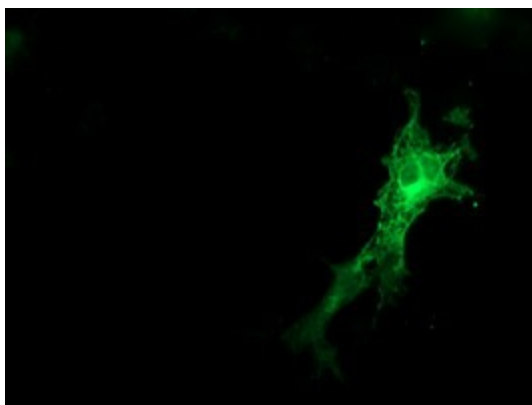
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-SNAP25 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



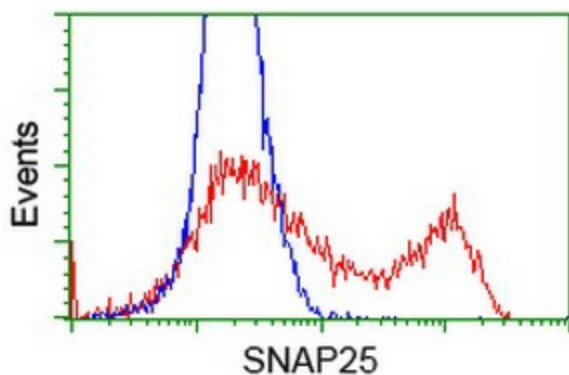
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-SNAP25 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



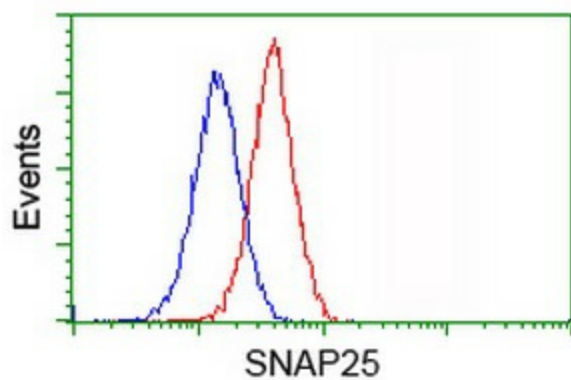
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-SNAP25 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-SNAP25 mouse monoclonal antibody ([TA502970]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SNAP25 ([RC202068]).



HEK293T cells transfected with either [RC202068] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SNAP25 antibody ([TA502970]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-SNAP25 antibody ([TA502970]), (Red), compared to a nonspecific negative control antibody, (Blue).