

## Product datasheet for **CF502963**

### SNAP25 Mouse Monoclonal Antibody [Clone ID: OTI4G5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4G5
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:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	Homo sapiens synaptosome associated protein 25 (SNAP25), transcript variant 1, mRNA.
Database Link:	<a href="#">NP_003072</a> <a href="#">Entrez Gene 20614 Mouse</a> <a href="#">Entrez Gene 25012 Rat</a> <a href="#">Entrez Gene 6616 Human</a> <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:**

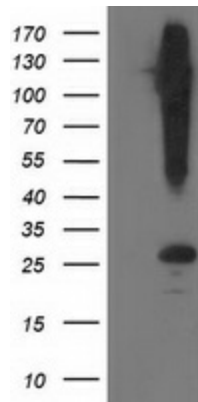
bA416N4.2; dj1068F16.2; RIC-4; RIC4; SEC9; SNAP; SNAP-25

**Protein Families:**

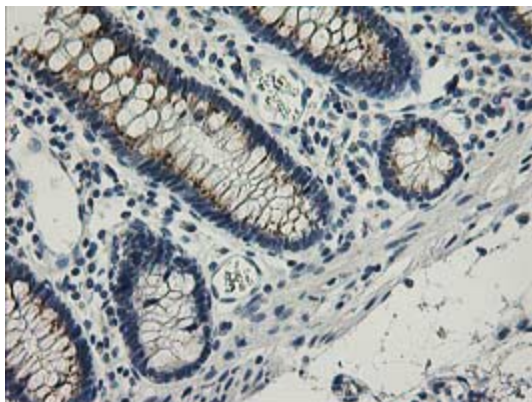
Druggable Genome

**Protein Pathways:**

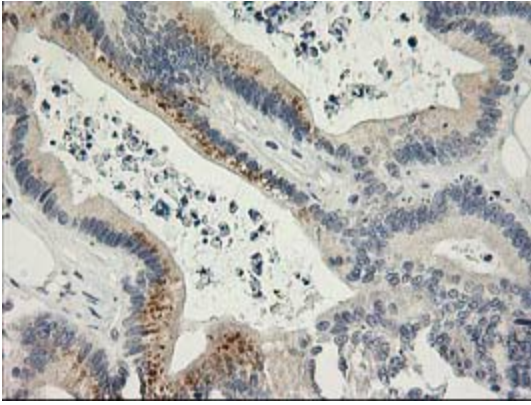
SNARE interactions in vesicular transport

**Product images:**

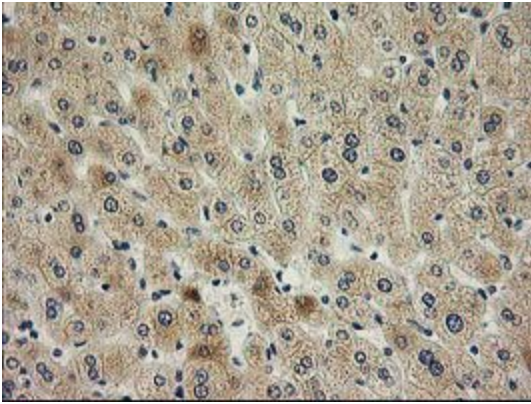
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SNAP25 (Cat# [RC202068], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SNAP25 (Cat# [TA502963]). Positive lysates [LY418912] (100ug) and [LC418912] (20ug) can be purchased separately from OriGene.



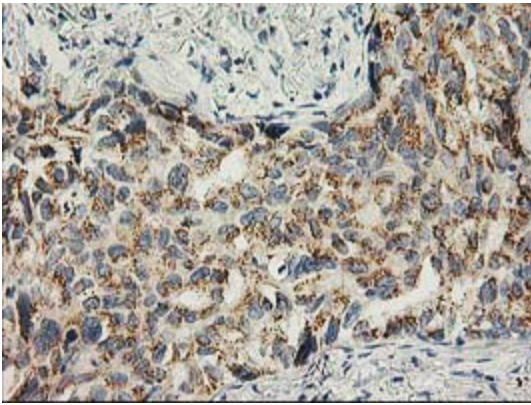
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-SNAP25 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502963])



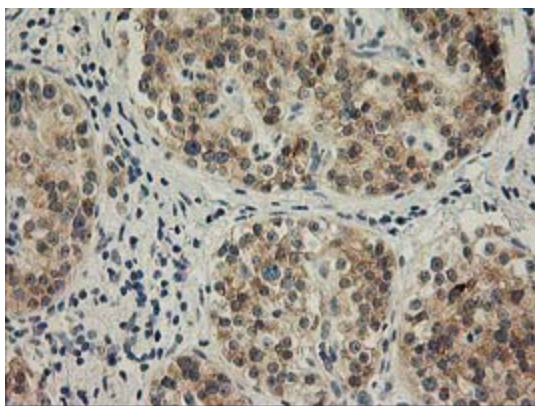
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-SNAP25 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502963])



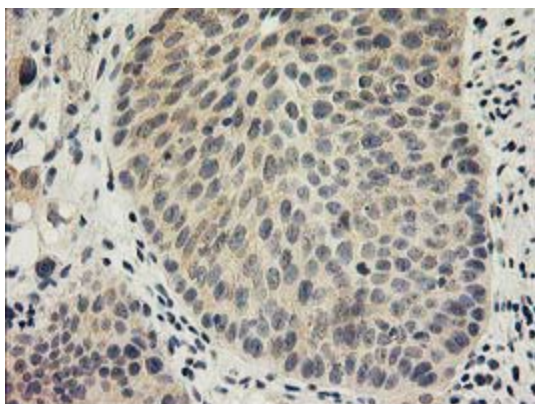
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-SNAP25 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502963])



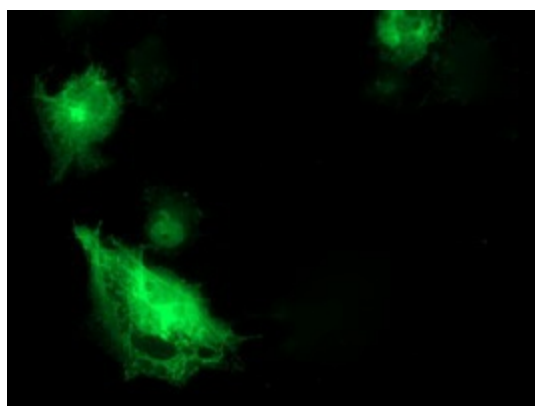
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-SNAP25 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502963])



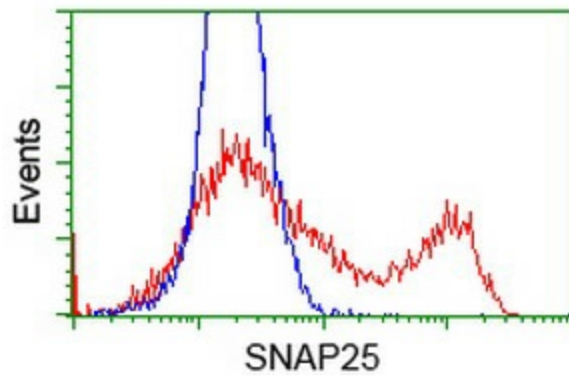
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-SNAP25 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502963])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-SNAP25 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502963])



Anti-SNAP25 mouse monoclonal antibody ([TA502963]) 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 ([TA502963]), and then analyzed by flow cytometry.