



Rabbit Anti-SNAPIN antibody

SL11364R

Product Name:	SNAPIN
Chinese Name:	突触相关蛋白25Binding protein抗体
Alias:	SNAP associated protein; SNAP-25-binding protein; SNAP-associated protein; SNAP25BP; SNAPAP; SNAPIN; SNAPN_HUMAN; SNARE associated protein snapin; SNARE-associated protein Snapin; Synaptosomal associated protein 25 binding protein; Synaptosomal-associated protein 25-binding protein; OTTHUMP00000035157.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	15kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SNAP25BP:51-150/136
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is a coiled-coil-forming protein that associates with the SNARE (soluble N-ethylmaleimide-sensitive fusion protein attachment protein receptor) complex of proteins and the BLOC-1 (biogenesis of lysosome-related organelles) complex. Biochemical studies have identified additional binding partners.

As part of the SNARE complex, it is required for vesicle docking and fusion and regulates neurotransmitter release. The BLOC-1 complex is required for the biogenesis of specialized organelles such as melanosomes and platelet dense granules. Mutations in gene products that form the BLOC-1 complex have been identified in mouse strains that are models of Hermansky-Pudlak syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012].

Function:

May modulate a step between vesicle priming, fusion and calcium-dependent neurotransmitter release by potentiating the interaction of synaptotagmins with the SNAREs and the plasma-membrane-associated protein SNAP25. Its phosphorylation state influences exocytotic protein interactions and may regulate synaptic vesicle exocytosis. May also have a role in the mechanisms of SNARE-mediated membrane fusion in non-neuronal cells.

Subunit:

Interacts with CSNK1D, SNAP23 and STX4A but not with STX1A, VAMP2 and SYT1. Interacts with SNAP25; the interaction with SNAP25 is increased by its phosphorylation (By similarity). Component of the biogenesis of lysosome-related organelles complex 1 (BLOC-1) composed of BLOC1S1, BLOC1S2, BLOC1S3, BLOC1S4, BLOC1S5, BLOC1S6, DTNBP1/BLOC1S7 and SNAPIN/BLOC1S8. Octamer composed of one copy each BLOC1S1, BLOC1S2, BLOC1S3, BLOC1S4, BLOC1S5, BLOC1S6, DTNBP1/BLOC1S7 and SNAPIN/BLOC1S8. The BLOC-1 complex associates with the AP-3 protein complex and membrane protein cargos. Associates with the SNARE complex. Interacts with CEP110, NANOS1, PUM2 and RGS7. Interacts with human cytomegalovirus/HHV-5 protein UL70.

Subcellular Location:

Cytoplasm (By similarity). Membrane; Peripheral membrane protein; Cytoplasmic side (By similarity). Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side (By similarity). Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Peripheral membrane protein; Cytoplasmic side (Potential). Cell junction, synapse, synaptosome. Cytoplasm, perinuclear region. Golgi apparatus membrane (By similarity). Note=May be cytoplasmic and peripheral membrane bound or anchored to the vesicular membrane through an N-terminal signal anchor (By similarity). Co-localizes with NANOS1 and PUM2 in the perinuclear region of germ cells.

Tissue Specificity:

Expressed in male germ cells of adult testis (at protein level).

Post-translational modifications:

Phosphorylated by CSNK1D/CK1 (By similarity).

Similarity:

Belongs to the SNAPIN family.

SWISS:
O95295

Gene ID:
23557

Database links:

[Entrez Gene: 23557](#) Human

[Entrez Gene: 20615](#) Mouse

[Entrez Gene: 295217](#) Rat

[Oimim: 607007](#) Human

[SwissProt: O95295](#) Human

[SwissProt: Q9Z266](#) Mouse

[SwissProt: P60192](#) Rat

[Unigene: 32018](#) Human

[Unigene: 331182](#) Mouse

[Unigene: 3815](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.