

Datasheet for ABIN967922

anti-SNAP25 antibody (AA 8-29)

2 Images

5 Publications



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	SNAP25
Binding Specificity:	AA 8-29
Reactivity:	Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SNAP25 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Mouse SNAP-25 aa. 8-29
Clone:	20-SP
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
---------------	---

Target Details

Target:	SNAP25
Alternative Name:	SNAP-25 (SNAP25 Products)
Background:	<p>Release of neurotransmitters from neurons is regulated by exocytosis of synaptic vesicles. This exocytosis is mediated by a complex consisting of membrane components of both the synaptic vesicle and the synaptic plasma membrane. The fusion complex consists of the soluble NSF (N-ethyl-maleimide-sensitive factor) and SNAPs (soluble NSF attachment proteins), along with the receptor proteins (known as SNAREs) synaptobrevin, synaptotagmin, syntaxin, and SNAP-25 (synaptosomal-associated protein of 25 kDa- the name is coincidental to the previously mentioned SNAP" terminology). SNAP-25 and syntaxin are plasmalemmal proteins (designated as t-SNAREs) while synaptobrevin and synaptotagmin are vesicular proteins (designated as v-SNAREs). These four proteins are thought to constitute an initial SNARE docking complex for regulated exocytosis. SNAP-25 lacks a transmembrane domain, but is linked to the membrane by palmitoylated cysteine residues in the central region of the molecule. This antibody is routinely tested by western blot analysis.</p> <p>Synonyms: Synaptosomal Associated Protein of 25 kD</p>
Molecular Weight:	25 kDa
Pathways:	Positive Regulation of Peptide Hormone Secretion , Hormone Transport , Synaptic Vesicle Exocytosis , Dicarboxylic Acid Transport

Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
--------------------	--

Storage:	-20 °C
----------	--------

Storage Comment:	Store undiluted at -20° C.
------------------	----------------------------

Publications

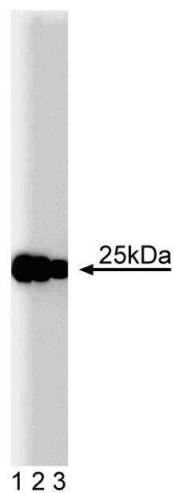
Product cited in: Hasegawa, Zinsser, Rhee, Vik-Mo, Davanger, Hay: "Mammalian ykt6 is a neuronal SNARE targeted to a specialized compartment by its profilin-like amino terminal domain." in: **Molecular biology of the cell**, Vol. 14, Issue 2, pp. 698-720, (2003) ([PubMed](#)).

Torii, Zhao, Yi, Takeuchi, Izumi: "Granuphilin modulates the exocytosis of secretory granules through interaction with syntaxin 1a." in: **Molecular and cellular biology**, Vol. 22, Issue 15, pp. 5518-26, (2002) ([PubMed](#)).

Martinez-Arca, Alberts, Zahraoui, Louvard, Galli: "Role of tetanus neurotoxin insensitive vesicle-associated membrane protein (TI-VAMP) in vesicular transport mediating neurite outgrowth." in: **The Journal of cell biology**, Vol. 149, Issue 4, pp. 889-900, (2000) ([PubMed](#)).

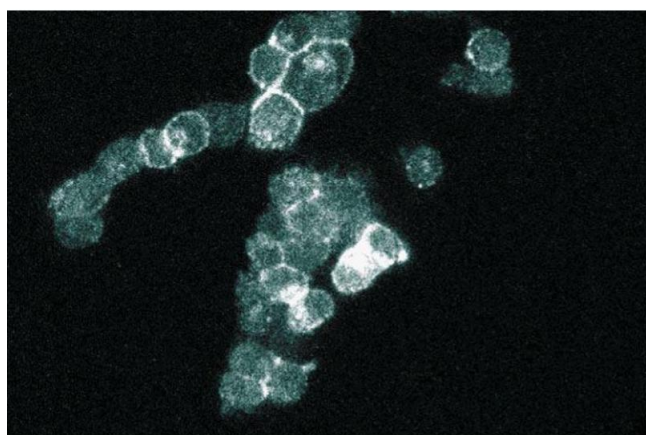
Chapman, An, Barton, Jahn: "SNAP-25, a t-SNARE which binds to both syntaxin and synaptobrevin via domains that may form coiled coils." in: **The Journal of biological chemistry**, Vol. 269, Issue 44, pp. 27427-32, (1994) ([PubMed](#)).

Oyler, Higgins, Hart, Battenberg, Billingsley, Bloom, Wilson: "The identification of a novel synaptosomal-associated protein, SNAP-25, differentially expressed by neuronal subpopulations." in: **The Journal of cell biology**, Vol. 109, Issue 6 Pt 1, pp. 3039-52, (1990) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of SNAP-25 on a rat cerebrum lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-SNAP-25 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of PC12 cells (Rat neuroblastoma, ATCC CRL-1721).