

Datasheet for ABIN7043792
anti-SNAP25 antibody (Cytosolic)



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1 Image

Overview

Quantity:	50 µL
Target:	SNAP25
Binding Specificity:	Cytosolic
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SNAP25 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to SNAP-25
Immunogen:	Immunogen: GST fusion protein Immunogen Sequence: GST fusion protein with the sequence MAEDADMRNELEEMQRRADQLADESLESTRMLQLVEESKDAGIRTLVMLDEQGEQLERIEEGMDQINKDMKEAEKNLTDLGK VDEREQMAISGGFIRRVNTNDARENEMDENLEQVSGIIGNLRHMALDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLG
Isotype:	IgG
Specificity:	Cytoplasmic
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Human,mouse - identical

Product Details

Characteristics: Anti- Antibody is directed against rat . Anti- Antibody (ABIN7043792 and ABIN7044647) can be used in western blot and designed to recognize from rat, mouse and human samples.

Purification: The serum was depleted of anti-GST antibodies by affinity chromatography on immobilized GST and then the IgG fraction

Target Details

Target:	SNAP25
Alternative Name:	SNAP25 (SNAP25 Products)
Background:	Synaptosomal-associated protein 25 kD,SNAP-25 (synaptosomal-associated 25kD protein) is a member of the soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) protein superfamily. The family includes 36 members in humans and is characterized by the SNARE motif, an evolutionarily conserved stretch of 60-70 amino acids that are arranged in heptad repeats^{1,2}.SNARE proteins are involved in exocytosis and intracellular vesicle trafficking and are essential for cell growth, hormone secretion and neurotransmission, processes that require rapid, targeted, and regulated membrane fusion^{1,2}.SNAREs can be roughly divided into vesicular (v-SNAREs) and target (t-SNAREs) based on their distribution on the transport vesicle or target membrane respectively. Thus, assembly of cognate v-/t-SNAREs between two opposing membranes generates trans-SNARE complexes, which bring the lipid bilayers in close proximity and drive membrane fusion.SNAP-25, unlike most SNAREs, lacks a membrane-spanning region, but is attached to the cytoplasmic side of the plasma membrane by posttranslational modifications such as palmitoylation or farnesylation^{1,2}.SNAP-25 has been extensively studied for its role on neuronal and neuroendocrine cell exocytosis where it functions as one of the plasma membrane protein t-SNARE, which together with the vesicular v-SNARE protein VAMP and another t-SNARE such as Syntaxin 1, forms a trimeric, four-helical complex, which drives fusion of the two opposing bilayers^{1,2}.SNAP-25 is the target of several botulinum neurotoxin (BoNT) types: type A, C and E. The neurotoxins cause specific proteolytic degradation of the SNAP-25 protein, which in turn causes SNARE complex disruption and inhibition of neurotransmitter release³. Alternative names: SNAP-25, Synaptosomal-associated protein 25 kD
Gene ID:	25012
NCBI Accession:	NM_130811
UniProt:	P60881
Pathways:	Positive Regulation of Peptide Hormone Secretion , Hormone Transport , Synaptic Vesicle

Target Details

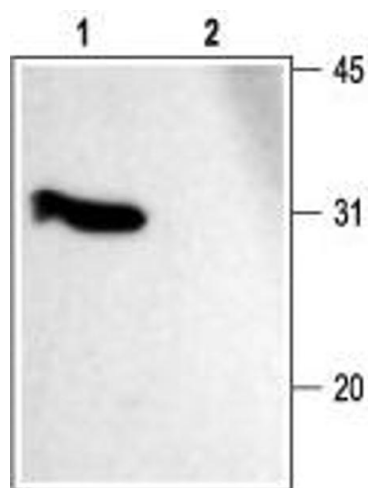
Exocytosis, Dicarboxylic Acid Transport

Application Details

Application Notes:	Antigen preadsorption control: 3 µg fusion protein per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: 1:1000
Comment:	Cited Application: IHC Negative Control: (ABIN7237327) Blocking Peptide: (ABIN7237327)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Western Blotting

Image 1. Western blot analysis of rat brain membranes: -
1. Anti-SNAP-25 Antibody (ABIN7043792 and ABIN7044647), (1:1000). 2. Anti-SNAP-25 Antibody, preincubated with SNAP-25 Blocking Peptide (BLP-NR001).