

Datasheet: MCA1308

Description:	MOUSE ANTI HUMAN SNAP-25
Specificity:	SNAP-25
Other names:	SYNAPTOSOMAL-ASSOCIATED PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SP12
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			1/2000 - 1/5000
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/5000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Hamster, Pig, Rat, Gerbil

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Crude human synaptic immunoprecipitate.
External Database Links	<p>UniProt: P60880 Related reagents</p> <p>Entrez Gene: 6616 SNAP25 Related reagents</p>
Synonyms	SNAP
RRID	AB_322417
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NSO myeloma cell line.
Specificity	<p>Mouse anti Human SNAP-25 antibody, clone SP12 recognizes the human pre-synaptic protein, SNAP-25, also known as Synaptosomal-associated protein 25, Super protein (SUP) or Synaptosomal-associated 25 kDa protein. SNAP-25 is a 206 amino acid presynaptic protein of ~25 kDa containing two t-SNARE coiled-coil homology domains. Mouse anti human SNAP-25 antibody, clone SP12 will recognize SNAP-25 fusion protein from COS cells, but not the fusion protein from bacterial systems.</p> <p>Mouse anti Human SNAP-25 antibody, clone SP12 has been used to study the distribution of synaptic changes in the hippocampus of patients with medically refractory temporal lobe epilepsy. (Honer <i>et al.</i> 1994).</p>
Immunohistology	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Histology Positive Control Tissue	Brain
References	<ol style="list-style-type: none"> Honer, W.G. <i>et al.</i> (1994) Hippocampal synaptic pathology in patients with temporal lobe epilepsy. Acta Neuropathol. 87 (2): 202-10. Honer, W.G. <i>et al.</i> (1992) Regional synaptic pathology in Alzheimer's disease. Neurobiol Aging. 13 (3): 375-82. Honer, W.G. <i>et al.</i> (1993) Human synaptic proteins with a heterogeneous distribution in

- cerebellum and visual cortex. [Brain Res. 609 \(1-2\): 9-20.](#)
4. Honer, W.G. *et al.* (1992) Characterization of a synaptic antigen of interest in neuropsychiatric illness. [Biol Psychiatry. 31 \(2\): 147-58.](#)
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 6. Sawada, K. *et al.* (2002) Altered immunoreactivity of complexin protein in prefrontal cortex in severe mental illness. [Mol Psychiatry. 7: 484-92.](#)
 7. Ishimaru, H. *et al.* (2001) Changes in presynaptic proteins, SNAP-25 and synaptophysin, in the hippocampal CA1 area in ischemic gerbils. [Brain Res. 903: 94-101.](#)
 8. Wakabayashi, K. *et al.* (1994) Synapse alterations in the hippocampal-entorhinal formation in Alzheimer's disease with and without Lewy body disease. [Brain Res. 667 \(1\): 24-32.](#)
 9. Dickson, D.W. *et al.* (1994) Hippocampal sclerosis: a common pathological feature of dementia in very old (≥ 80 years of age) humans. [Acta Neuropathol. 88 \(3\): 212-21.](#)
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 11. Bragina, L. *et al.* (2006) GLT-1 down-regulation induced by clozapine in rat frontal cortex is associated with synaptophysin up-regulation. [J Neurochem. 99: 134-41.](#)
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 14. Vannucchi, M.G. *et al.* (2000) Synapse formation during neuron differentiation: an *in situ* study of the myenteric plexus during murine embryonic life. [J Comp Neurol. 425: 369-81.](#)
 15. Lemons, P.P. *et al.* (1997) Regulated secretion in platelets: identification of elements of the platelet exocytosis machinery. [Blood. 90: 1490-500.](#)
 16. Mukaetova-Ladinska, E.B. *et al.* (2000) Staging of cytoskeletal and beta-amyloid changes in human isocortex reveals biphasic synaptic protein response during progression of Alzheimer's disease. [Am J Pathol. 157: 623-36.](#)
 17. Chen, H.Y. *et al.* (2009) Melatonin improves presynaptic protein, SNAP-25, expression and dendritic spine density and enhances functional and electrophysiological recovery following transient focal cerebral ischemia in rats. [J Pineal Res. 47: 260-70.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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Printed on 17 Sep 2021