

Datasheet: MCA1308

BATCH NUMBER 161720

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	<p>Reacts with: Hamster, Pig, Rat, Gerbil</p> <p>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.</p>
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	UniProt: P60880 Related reagents Entrez Gene: 6616 SNAP25 Related reagents
--------------------------------	---

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 <u>~25 kDa</u> containing two <u>t-SNARE coiled-coil homology</u> 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 et al. 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.](#)

3. Honer, W.G. *et al.* (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.](#)
5. Honer, W.G. *et al.* (1989) Monoclonal antibodies to study the brain in schizophrenia. [Brain Res. 500 \(1-2\): 379-83.](#)
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.](#)
10. Dickson, D.W. *et al.* (1995) Correlations of synaptic and pathological markers with cognition of the elderly. [Neurobiol Aging. 16 \(3\): 285-98; discussion 298-304.](#)
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.](#)
12. Steel, G.J. *et al.* (1997) Evidence for interaction of the fusion protein alpha-SNAP with membrane lipid. [Biochem J. 325 : 511-8.](#)
13. Reed, G.L. *et al.* (1999) Human platelets contain SNARE proteins and a Sec1p homologue that interacts with syntaxin 4 and is phosphorylated after thrombin activation: implications for platelet secretion. [Blood. 93: 2617-26.](#)
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: <https://www.bio-rad-antibodies.com/SDS/MCA1308>

Regulatory

For research purposes only

Related Products**Recommended Secondary Antibodies**

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

North & South Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M383433:210513'

Printed on 18 Jan 2024