

## Datasheet: MCA1308

**BATCH NUMBER 0813R**

<b>Description:</b>	MOUSE ANTI HUMAN SNAP-25
<b>Specificity:</b>	SNAP-25
<b>Other names:</b>	SYNAPTOSOMAL-ASSOCIATED PROTEIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	SP12
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Hamster, Pig, Rat, Gerbil</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** 0.09% Sodium Azide

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**Carrier Free** Yes

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Crude human synaptic immunoprecipitate.

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**External Database Links**

**UniProt:**

[P60880](#)

[Related reagents](#)

**Entrez Gene:**

[6616](#)

SNAP25

[Related reagents](#)

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**Synonyms** SNAP

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**RRID** AB\_322417

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the NSO myeloma cell line.

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**Specificity** **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.

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](#)).

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**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.

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**Histology Positive Control Tissue** Brain

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**References**

1. Honer, W.G. *et al.* (1994) Hippocampal synaptic pathology in patients with temporal lobe epilepsy. [Acta Neuropathol. 87 \(2\): 202-10.](#)
2. Honer, W.G. *et al.* (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.](#)
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9. Dickson, D.W. *et al.* (1994) Hippocampal sclerosis: a common pathological feature of dementia in very old ( $\geq 80$  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.](#)
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.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety**

Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA1308>  
10040

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**Regulatory** For research purposes only

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## 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](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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