

Datasheet: AHP1124

**BATCH NUMBER 171077**

<b>Description:</b>	GOAT ANTI SNAP-25 (C-TERMINAL)
<b>Specificity:</b>	SNAP-25 (C-TERMINAL)
<b>Other names:</b>	SYNAPTOSOMAL-ASSOCIATED PROTEIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 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)	▪			2.0 - 4.0ug/ml
ELISA	▪			1/32000
Immunoprecipitation			▪	
Western Blotting	▪			0.01 - 0.03ug/ml

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

**(1)Heat-mediated antigen retrieval is required prior to staining paraffin sections with this antibody. Bio-Rad recommend citrate buffer, pH6.0, for this purpose.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse</p> <p>Based on sequence similarity, is expected to react with:Rat, Dog</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

**Antiserum Preparation** Antisera to human SNAP-25 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

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**Buffer Solution** TRIS buffered saline

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**Preservative** 0.02% Sodium Azide  
**Stabilisers** 0.5% Bovine Serum Albumin

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**Approx. Protein Concentrations** IgG concentration 0.5 mg/ml

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**Immunogen** Peptide sequence C-DEANQRATKMLGSG corresponding to the C-terminus of SNAP-25 (NP\_003072.2, NP\_570824.1).

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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\_808741

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**Specificity** **Goat anti Human SNAP25 antibody** recognizes human synaptosomal-associated protein, 25kD (SNAP-25), also known as Super protein (Sup) or Synaptosomal-associated 25 kDa protein. SNAP-25 is a 206 amino acid, presynaptic plasma membrane protein containing 2 [tSNARE coiled-coil](#) domains and is essential for Ca<sup>2+</sup>-regulated exocytosis of neurotransmitters. SNAP-25 binds to and negatively modulate Ca<sup>2+</sup> channels, increasing the speed of neurotransmitter release ([Rettig et al. 1996](#)). Goat anti Human SNAP25 antibody detects an epitope within the C-terminal (CT) of human SNAP25 (aa 193-206).

As a result of alternative splicing, SNAP-25 is expressed by neurons and neuroendocrine cells as two predominant isoforms; SNAP-25a and SNAP-25b. SNAP-25a is expressed early in development, whereas SNAP-25b expression is linked to synaptogenesis ([Bark and Wilson 1994](#)). Goat anti human SNAP25 antibody is expected to recognise both isoforms.

SNAP-25 may be a possible therapeutic treatment target for sufferers of hyperactivity disorders ([Barr et al. 2000](#)), whilst SNAP-25 based peptides may be a possible treatment for involuntary muscle spasms ([Hodel 1998](#)).

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**Western Blotting** AHP1124 detects a band of approximately 22kDa in human and mouse brain lysates. A minimum incubation time of 1 hour is recommended with this antibody.

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**References**

- Hodel, A. (1998) SNAP-25. [Int J Biochem Cell Biol. 30 \(10\): 1069-73.](#)
- Lazzarini, R. et al. (2019) Mesenchymal Stem Cells from Nucleus Pulposus and Neural

Differentiation Potential: a Continuous Challenge. [J Mol Neurosci. 67 \(1\): 111-124.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10058 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1124>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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