

Datasheet: AHP1124

BATCH NUMBER 220415

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|----------------------|---------------------------------|
| Description: | GOAT ANTI SNAP-25 (C-TERMINAL) |
| Specificity: | SNAP-25 (C-TERMINAL) |
| Other names: | SYNAPTOSOMAL-ASSOCIATED PROTEIN |
| Format: | Purified |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 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.

| | 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.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

Based on sequence similarity, is expected to react with:Rat, Dog

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

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.

Buffer Solution TRIS buffered saline

Preservative 0.02% Sodium Azide
Stabilisers 0.5% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

Immunogen Peptide sequence C-DEANQRATKMLGSG corresponding to the C-terminus of SNAP-25 (NP_003072.2, NP_570824.1).

External Database Links

UniProt:

[P60880](#) [Related reagents](#)

Entrez Gene:

[6616](#) SNAP25 [Related reagents](#)

Synonyms SNAP

RRID AB_808741

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 Ca²⁺-regulated exocytosis of neurotransmitters. SNAP-25 binds to and negatively modulate Ca²⁺ 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](#)).

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.

References

1. Hodel, A. (1998) SNAP-25. [Int J Biochem Cell Biol. 30 \(10\): 1069-73.](#)
2. 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.](#)

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.

Guarantee

12 months from date of despatch

Health And Safety Information

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

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