

## Datasheet: AHP494

<b>Description:</b>	GOAT ANTI HUMAN PRESENILIN-2
<b>Specificity:</b>	PRESENILIN-2
<b>Other names:</b>	PSEN2
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## 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	▪			1/1000
Immunohistology - Paraffin	▪			1/300
ELISA	▪			1/20,000 on immunising peptide
Immunoprecipitation			▪	
Western Blotting			▪	

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>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Serum - liquid

**Antiserum Preparation** Antisera to Presenilin-2 were raised by repeated immunisation of goats with highly purified antigen.

<b>Preservative Stabilisers</b>	0.1% Sodium Azide
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids 31-47 of Presenilin-2.

### External Database Links

**UniProt:**  
[P49810](#)    [Related reagents](#)  
[Q61144](#)    [Related reagents](#)

**Entrez Gene:**

[5664](#) PSEN2 [Related reagents](#)  
[19165](#) Psen2 [Related reagents](#)

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**Synonyms** AD4, Ad4h, Alg3, Ps-2, PS2, Psnl2, PSNL2, STM2

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**Specificity** **Goat anti Human presenilin-2 antibody** recognizes human presenilin-2 (PSEN2), binding to neurons in both normal and Alzheimer's disease brain. Mutation of PSEN2 is associated with the early onset form of autosomal dominant Alzheimer's disease.

PSEN2 is an essential component of the gamma-secretase complex along with APH-1 (APH-1A or APH-1B), PSEN1, Pen-2 (PEN2), and nicastrin (NCSTN). This endoprotease complex plays a vital role in the evolutionarily conserved Notch signaling pathway, by catalyzing the intramembrane S3 cleavage of ligand-activated Notch receptor proteins (Notch1-4), resulting in the generation and release of an activated NICD fragment, which then translocates to the nucleus and activates the transcription of downstream effector genes.

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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. Levy-lahad, E. *et al.* (1995) Candidate gene for the chromosome 1 familial Alzheimer's disease locus. [Science. 269 \(5226\): 973-7.](#)

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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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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10342 available at: 10342: <https://www.bio-rad-antibodies.com/uploads/MSDS/10342.pdf>

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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](#)

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