

## Datasheet: AHP1196

<b>Description:</b>	RABBIT ANTI HUMAN PEN2 (C-TERMINAL)
<b>Specificity:</b>	PEN2 (C-TERMINAL)
<b>Other names:</b>	PRESENILIN ENHANCER PROTEIN 2
<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			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml
Immunofluorescence	▪			

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, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to human PEN2 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	13 amino acid peptide sequence near the carboxy terminus of human PEN2.

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9NZ42</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">55851</a> PSENEN <a href="#">Related reagents</a>
<b>Synonyms</b>	PEN2
<b>Specificity</b>	<b>Rabbit anti Human PEN2 antibody</b> recognizes the carboxy region of human Presenilin enhancer protein 2 (PEN), a ~12 kDa member of the PEN2 family and subunit of the gamma-secretase complex. This complex is an endoprotease that cleaves integral membrane proteins. These include Notch receptors and the beta-amyloid precursor protein which is cleaved to form amyloid beta peptide, a major component of the neuritic plaques found in Alzheimer's disease. The gamma secretase complex consists of nicastrin, the presenilin homodimers and APH1. It is the addition of PEN2, the final stage of gamma secretase maturation that facilitates endoproteolysis of presenilin and confers proteolytic activity. PEN2 expression has been observed in leukocytes, lung, placenta, small intestine, liver, kidney, spleen thymus, skeletal muscle, heart and brain.
<b>Western Blotting</b>	AHP1196 detects a band of approximately 12kDa in K562
<b>Further Reading</b>	1. Francis, R. <i>et al.</i> (2002) aph-1 and pen-2 are required for Notch pathway signaling, gamma-secretase cleavage of betaAPP, and presenilin protein accumulation. <a href="#">Dev Cell. 3 (1): 85-97.</a> 2. Steiner, H. <i>et al.</i> (2002) PEN-2 is an integral component of the gamma-secretase complex required for coordinated expression of presenilin and nicastrin. <a href="#">J Biol Chem. 277 (42): 39062-5.</a>
<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	<a href="#">FITC</a>
Sheep Anti Rabbit IgG (STAR35...)	<a href="#">RPE</a>
Goat Anti Rabbit IgG (H/L) (STAR124...)	<a href="#">HRP</a>
Goat Anti Rabbit IgG (Fc) (STAR121...)	<a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Sheep Anti Rabbit IgG (2AB02...)	<a href="#">Biotin</a>
Sheep Anti Rabbit IgG (STAR36...)	<a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a>

### Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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