

Datasheet: AHP1253

Description:	GOAT ANTI AMYLOID PRECURSOR PROTEIN (aa44-63)
Specificity:	AMYLOID PRECURSOR PROTEIN (aa44-63)
Other names:	APP
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/5000
Immunohistology - Paraffin	▪			1/100
ELISA	▪			1/1500
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Serum - liquid
Antiserum Preparation	Antisera to human amyloid precursor protein were raised by repeated immunisations of goats with highly purified antigen.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Synthetic peptide corresponding to the amino acid sequence 44-63 of human amyloid precursor protein.

**External Database
Links**

UniProt:

[P05067](#) [Related reagents](#)

Entrez Gene:

[351](#) APP [Related reagents](#)

Synonyms

A4, AD1

RRID

AB_877439

Specificity

Goat anti amyloid precursor protein antibody recognizes amyloid precursor protein (APP), a ~130 kDa member of the APP family, expressed in adult brain. It is a cell surface kinesin I membrane receptor which regulates the axonal transport of beta-secretase and presenilin 1. In Alzheimer's disease processing of APP by beta-secretase gives rise to amyloidogenic 42 AA beta amyloid protein that is found in senile plaques and vessels. APP binds components of the extracellular matrix such as heparin and collagen I and IV, regulating neurite growth and is also involved in neuronal adhesion, cell mobility and axonogenesis. Through it's binding to APBB1/Tip60, APP plays a role in the regulation of transcription. APP also inhibits Notch signaling through it's interaction with NUMB.

**Histology Positive
Control Tissue**

Human Alzheimer disease brain.

Western Blotting

AHP1253 detects a band of approximately 130kDa in neuronal cell lysates.

References

1. Venezia, V. (2007) Amyloid precursor protein and presenilin involvement in cell signaling. [Neurodegener. Dis. 4:101-11.](#)

Storage

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.

Guarantee

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10081 available at:
10081: <https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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