

Datasheet: AHP607

Description:	RABBIT ANTI HUMAN BACE2
Specificity:	BACE2
Other names:	BETA-SITE APP-CLEAVING ENZYME 2
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			▪	
ELISA			▪	
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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human BACE2 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Synthetic peptide corresponding to amino acids 44-59 of human BACE2.

**External Database
Links**

UniProt:

[Q9Y5Z0](#) [Related reagents](#)

Entrez Gene:

[25825](#) BACE2 [Related reagents](#)

Synonyms

AEPLC, ALP56, ASP21

Specificity

Rabbit anti Human BACE2 antibody recognizes human Beta-secretase 2, also known as BACE2, Aspartic-like protease 56 kDa, Aspartyl protease 1, Beta-site amyloid precursor protein cleaving enzyme 2, Down region aspartic protease, Memapsin-1, Membrane-associated aspartic protease 1 or Theta-secretase. BACE2 is a 456 amino acid ~56 kDa single pass type 1 transmembrane glycoprotein bearing a 20 amino acid N-terminal signal peptide and an adjacent 42 amino acid pro-peptide region. Rabbit anti Human BACE2 antibody recognizes an epitope within the N-terminal region of BACE2, a homologue of the beta-site APP cleaving enzyme (BACE). BACE2 has been reported to cleave the beta-amyloid precursor protein (APP) at the beta-site, producing amyloid-beta protein ([Yan et al.1999](#)). Accumulation of amyloid beta plaques in the cerebral cortex play an important role in the pathogenesis of Alzheimer's disease, particularly in individuals bearing the Flemish mutation ([Farzan et al. 2000](#)).

References

1. Koryakina A *et al.* (2009) Regulation of secretases by all-trans-retinoic acid. [FEBS J. 276 \(9\): 2645-55.](#)

Further Reading

1. Farzan, M. *et al.* (2000) BACE2, a beta -secretase homolog, cleaves at the beta site and within the amyloid-beta region of the amyloid-beta precursor protein. [Proc. Natl. Acad. Sci. 97:9712-7.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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