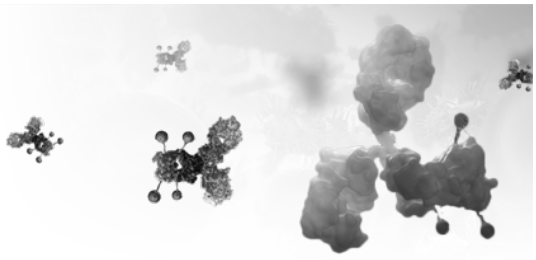

Anti-APH1A (internal region) polyclonal antibody (CPBT-66548GH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product specifically recognises human APH-1A (gamma-secretase subunit APH-1A), otherwise known as anterior pharynx defective 1 homolog A, an integral transmembrane protein, and member of the APH-1 family, which is predominantly located in the endoplasmic reticulum and cis-Golgi, and is an essential component of the endoprotease gamma-secretase complex. The gamma-secretase complex, consisting of APH-1 (APH-1A or APH-1B), presenilin-1 or -2 (PSEN1 or PSEN2), nicastrin (NCSTN), and Pen-2 (PEN2), 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. Western Blotting detects a band of approximately 26kDa in Human cerebral cortex cell lysates.
Specificity	APH1A
Immunogen	Synthetic peptide sequence C-HVTDRSDARLQYG from the internal region of human APH-1A
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human, Mouse, Rat
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	100 µg

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Preservative	0.02% Sodium Azide
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.

GENE INFORMATION

Gene Name	APH1A APH1A gamma secretase subunit [Homo sapiens (human)]
Official Symbol	APH1A
Synonyms	APH1A; APH1A gamma secretase subunit; APH-1; APH-1A; CGI-78; 6530402N02Rik; gamma-secretase subunit APH-1A; aph-1alpha; presenilin-stabilization factor; anterior pharynx defective 1 homolog A;
Entrez Gene ID	51107
Protein Refseq	NP_001071096
UniProt ID	Q96BI3
Chromosome Location	1p36.13-q31.3
Pathway	Activated NOTCH1 Transmits Signal to the Nucleus; Alzheimers disease; Alzheimers Disease; Axon guidance; Cell death signalling via NRAGE, NRIF and NADE; Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants; Constitutive Signaling by NOTCH1 PEST Domain Mutants; Delta-Notch Signaling Pathway;
Function	endopeptidase activity; protein binding;

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