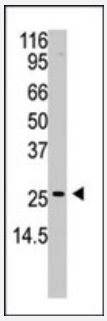
APH1A polyclonal antibody

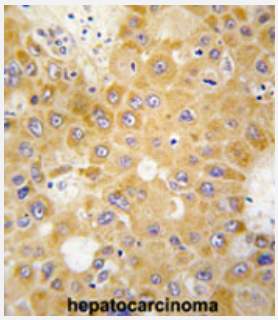
Catalog # PAB4887 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of APH1A polyclonal antibody (Cat # PAB4887) in A2058 cell lysate (35 ug/lane). APH1A (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocarcinomareacted with APH1A polyclonal antibody (Cat # PAB4887), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.
This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of APH1A.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human APH1A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — APH1A

Entrez GeneID	51107
Protein Accession#	NP_001071096;NP_057106;Q96BI3
Gene Name	APH1A
Gene Alias	6530402N02Rik, APH-1A, CGI-78
Gene Description	anterior pharynx defective 1 homolog A (C. elegans)
Omim ID	607629
Gene Ontology	Hyperlink

Gene Summary	APH1 is a multipass transmembrane protein that interacts with presenilin (see PSEN1; MIM 104311) and nicastrin (APH2; MIM 605254) as a functional component of the gamma-secretase complex. The gamma-secretase complex is required for the intramembrane proteolysis of a number of membrane proteins, including the amyloid-beta precursor protein (APP; MIM 104760) and Notch (MIM 190198).[supplied by OMIM
Other Designations	OTTHUMP00000014528|OTTHUMP00000014529|anterior pharynx defective 1 homolog A

Publication Reference

- Complete sequencing and characterization of 21,243 full-length human cDNAs.

  Ota T, Suzuki Y, Nishikawa T, Otsuki T, Sugiyama T, Irie R, Wakamatsu A, Hayashi K, Sato H, Nagai K, Kimura K, Makita H, Sekine M, Obayashi M, Nishi T, Shibahara T, Tanaka T, Ishii S, Yamamoto J, Saito K, Kawai Y, Isono Y, Nakamura Y, Nagahari K, Murakami K, Yasuda T, Iwayanagi T, Wagatsuma M, Shiratori A, Sudo H, Hosoiri T, Kaku Y, Kodaira H, Kondo H, Sugawara M, Takahashi M, Kanda K, Yokoi T, Furuya T, Kikkawa E, Omura Y, Abe K, Kamihara K, Katsuta N, Sato K, Tanikawa M, Yamazaki M, Ninomiya K

  Nature Genetics 2003 Dec; 36(1):40.

- The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment.

  Clark HF, Gurney AL, Abaya E, Baker K, Baldwin D, Brush J, Chen J, Chow B, Chui C, Crowley C, Currell B, Deuel B, Dowd P, Eaton D, Foster J, Grimaldi C, Gu Q, Hass PE, Heldens S, Huang A, Kim HS, Klimowski L, Jin Y, Johnson S, Lee J, Lewis L, Liao D, Mark M, Robbie E, Sanchez C, Schoenfeld J, Seshagiri S, Simmons L, Singh J, Smith V, Stinson J, Vagts A, Vandlen R, Watanabe C, Wieand D, Woods K, Xie MH, Yansura D, Yi S, Yu G, Yuan J, Zhang M, Zhang Z, Goddard A, Wood WI, Godowski P, Gray A.

  Genome Research 2003 Sep; 13(10):2265.

- APH1, PEN2, and Nicastrin increase Abeta levels and gamma-secretase activity.

  Marlow L, Canet RM, Haugabook SJ, Hardy JA, Lahiri DK, Sambamurti K.

  Biochemical and Biophysical Research Communications 2003 Jun; 305(3):502.

Pathway

- Notch signaling pathway

Disease

- Alzheimer disease

- Cardiovascular Diseases
- Diabetes Complications
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Tobacco Use Disorder