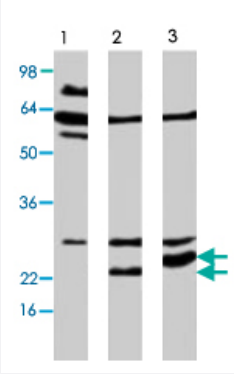
APH1A polyclonal antibody

Catalog # PAB8483 Size 25 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extract from Neuro 2a cells, using APH1A polyclonal antibody (Cat # PAB8483) . Lane 1: mock, lane 2: APH1A (247 a.a.) and lane 3: APH1A (265 a. a.) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of APH1A.
Immunogen	A synthetic peptide corresponding to human APH1A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (3-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.1% proclin, 2.0% Block Ace)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Applications

- Western Blot (Cell lysate)

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Gene Info — APH1A

Entrez GeneID	51107
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 1043 11) and nicastrin (APH2; MIM 605254) as a functional component of the gamma-secretase compl ex. 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

- The role of presenilin cofactors in the gamma-secretase complex.

  Takasugi N, Tomita T, Hayashi I, Tsuruoka M, Niimura M, Takahashi Y, Thinakaran G, Iwatsubo T.

  Nature 2003 Mar; 422(6930):438.

- Mammalian APH-1 interacts with presenilin and nicastrin and is required for intramembrane proteolysis of amyloid-beta precursor protein and Notch.

  Lee SF, Shah S, Li H, Yu C, Han W, Yu G.

  The Journal of Biological Chemistry 2002 Nov; 277(47):45013.

  Application: WB-Ti, Rat, Brain

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- Gamma-secretase-mediated proteolysis in cell-surface-receptor signalling.

  Fortini ME.

  Nature Reviews. Molecular Cell Biology 2002 Sep; 3(9):673.

- aph-1 and pen-2 are required for Notch pathway signaling, gamma-secretase cleavage of betaAPP, and presenilin protein accumulation.

  Francis R, McGrath G, Zhang J, Ruddy DA, Sym M, Apfeld J, Nicoll M, Maxwell M, Hai B, Ellis MC, Parks AL, Xu W, Li J, Gurney M, Myers RL, Himes CS, Hiebsch R, Ruble C, Nye JS, Curtis D.

  Developmental Cell 2002 Jul; 3(1):85.

- APH-1 is a multipass membrane protein essential for the Notch signaling pathway in Caenorhabditis elegans embryos.

  Goutte C, Tsunozaki M, Hale VA, Priess JR.

  PNAS 2002 Jan; 99(2):775.

  Application: IEM, C. elegans, C. elegans embryos

Pathway

- Notch signaling pathway

Disease

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

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