OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AP13314PU-N Polyclonal Antibody to APH1A (N-term) - Purified

Alternate names: APH-1A, Aph-1 alpha, CGI-78, Gamma-secretase subunit APH-1A, PSF, Presenilin-stabilization factor, aph-1

Quantity: 0.4 ml

Concentration: lot specific

Background: APH1 is an essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral proteins such as Notch receptors and APP (beta-amyloid precursor protein). The gamma-secretase complex is minimally composed of a presenilin homodimer (PSEN1 or PSEN2), nicastrin (NCSTN), APH1 (APH1A or APH1B) and PEN2, although other components may exist. APH1 probably represents a stabilizing cofactor for the presenilin homodimer that promotes the formation of a stable complex.

Uniprot ID: Q96BI3

NCBI: 9606

GeneID: 51107

Host / Isotype: Rabbit / Ig

Immunogen: This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human APH1.

Format:
State: Liquid purified Ig
Purification: Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Buffer System: PBS with 0.09% (W/V) sodium azide

Applications:
ELISA: 1/1,000.
Western blotting: 1/100 - 1/500.
Immunohistochemistry: 1/50 - 1/100.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody reacts to APH1.
Species: Human.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

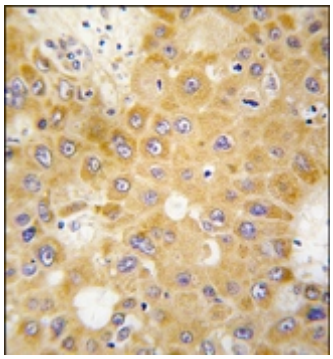
Caution: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

General Readings:
1. Ota, T., et al., Nat. Genet. 36(1):40-45 (2004).
2. Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).
3. Marlow, L., et al., Biochem. Biophys. Res. Commun. 305(3):502-509 (2003).
4. Kimberly, W.T., et al., Proc. Natl. Acad. Sci. U.S.A. 100(11):6382-6387 (2003).

5. Edbauer, D., et al., Nat. Cell Biol. 5(5):486-488 (2003).

Pictures:

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with APH1 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western blot analysis of anti-APH1 Antibody (N-term) in A2058 cell line lysates (35ug/lane). APH1 (arrow) was detected using the purified Pab.