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Datasheet for 600-401-Y40

APH1 Antibody

Overview

Description:	Anti-APH1 (RABBIT) Antibody - 600-401-Y40
Item No.:	600-401-Y40
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	APH1 was initially identified as a component of the Notch pathway in C. elegans. Along with nicastrin, PEN2, and presenilin-1 APH1 is an essential component of the gamma-secretase complex which cleave the amyloid precursor protein (APP) at what are known as the gamma- and epsilon-sites and can lead to the accumulation of the Amyloid beta peptide (Abeta) cleavage product that is associated with Alzheimer's disease. APH1 exists in at least three distinct isoforms with APH1a as the principal isoform present in the gamma-secretase complex. Mice deficient in this isoform, but not the other two, were lethal at E10.5, with impaired vascular and neural development observed.
Synonyms:	APH1 Antibody, APH-1, APH-1A, APH1A, CGI-78, 6530402N02Rik, PSF, UNQ579/PRO1141, Gamma-secretase subunit APH-1A, Aph-1alpha, APH-1a
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	APH1A
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-APH1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 18 amino acid synthetic peptide from near the internal region of human APH1.
Purity/Specificity:	Anti-APH1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with APH1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q96BI3 • GeneID - 51107 • NCBI - AAH08732

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-APH1 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 29 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IHC:	5 µg/mL
WB:	0.5 - 1 µg/mL

Formulation

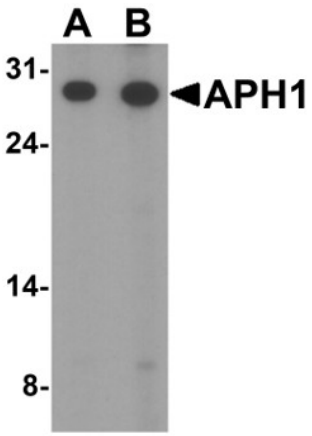
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

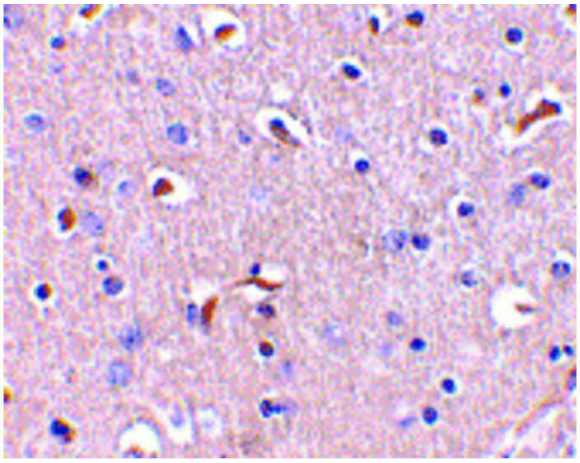
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

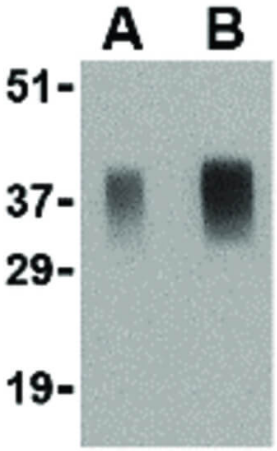
Images



Western Blot
Western blot analysis of APH1 in RAW264.7 cell lysate with APH1 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry
Immunohistochemistry of APH1 antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: APH1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: APH1 is nuclear and cytoplasmic. Staining: APH1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of APH1 antibody. Lane A: Human brain tissue lysate at 0.5 µg/mL. Lane B: Human brain tissue lysate at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 28.9 kDa, 36-38 kDa for APH1.

Disclaimer

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