

Rabbit APH1A Polyclonal Antibody | anti-APH1A antibody

Anti-APH1A Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127259	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

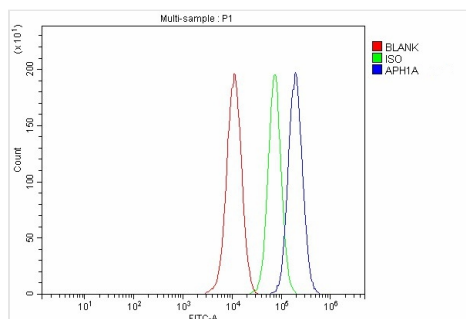
PRODUCT SYNONYMS

APH1A; Polyclonal Antibody; Anti-APH1A Antibody Picoband; anti-APH1A antibody

PRODUCT SPECIFICATIONS

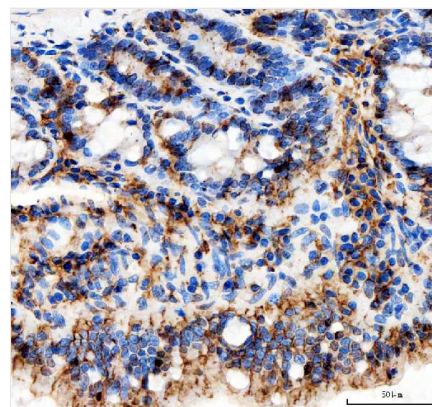
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-APH1A antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human APH1A, identical to the related mouse sequences.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



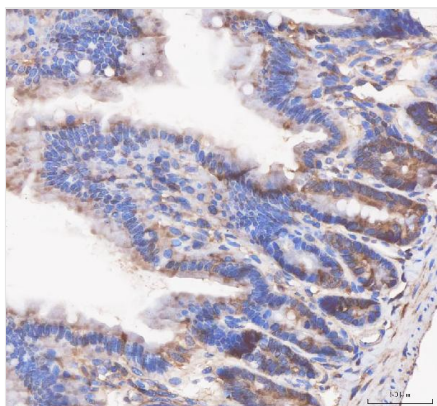
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of MCF-7 cells using anti-APH1A antibody (AAA127259). Overlay histogram showing MCF-7 cells stained with AAA127259 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-APH1A Antibody (AAA127259, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



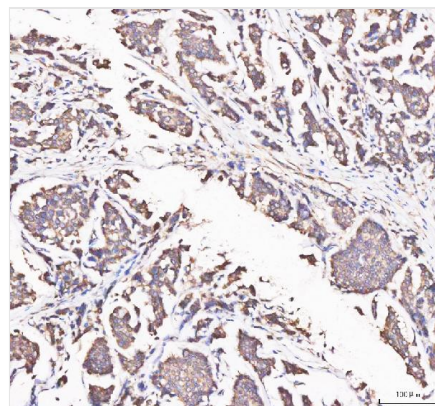
IHC (Immunohistochemistry)

Figure 4. IHC analysis of APH1A using anti-APH1A antibody (AAA127259). APH1A was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-APH1A Antibody (AAA127259) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



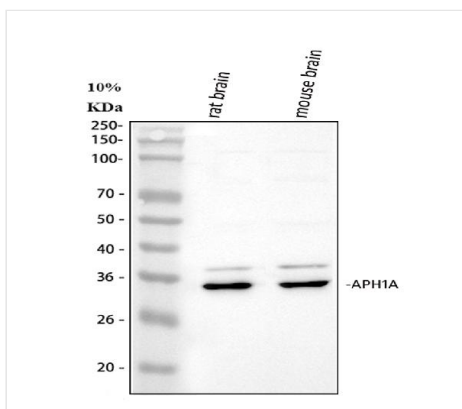
IHC (Immunohistochemistry)

Figure 3. IHC analysis of APh1A using anti-APH1A antibody (AAA127259). APh1A was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-APH1A Antibody (AAA127259) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of APh1A using anti-APH1A antibody (AAA127259). APh1A was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-APH1A Antibody (AAA127259) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of APh1A using anti-APH1A antibody (AAA127259). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-APH1A antigen affinity purified polyclonal antibody (#AAA127259) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for APh1A at approximately 29 kDa. The expected band size for APh1A is at 29 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-APH1A antibody

The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Categories/Family for anti-APH1A antibody

[Primary Antibodies](#)

References	1. Francis, R., McGrath, G., Zhang, J., Ruddy, D. A., Sym, M., Apfeld, J., Nicoll, M., Maxwell, M., Hai, B., Ellis, M. C., Parks, A. L., Xu, W., Li, J., Gurney, M., Myers, R. L., Himes, C. S., Hiebsch, R., Ruble, C., Nye, J. S., Curtis, D. aph-1 and pen-2 are required for Notch pathway signaling, gamma-secretase cleavage of beta-APP, and presenilin protein accumulation. Dev. Cell 3: 85-97, 2002. 2. Goutte, C., Tsunozaki, M., Hale, V. A., Priess, J. R. APH-1 is a multipass membrane protein essential for the Notch signaling pathway in Caenorhabditis elegans embryos. Proc. Nat. Acad. Sci. 99: 775-779, 2002.3. Goutte, C. Genetics leads the way to the accomplices of presenilins. (Commentary) Dev. Cell 3: 6-7, 2002.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14250557
NCBI GeneID	51107
UniProt Accession #	Q96BI3; Q5TB22; Q5TB23; Q969R6; Q9BVG0; Q9Y386; B4DQK0
Molecular Weight	20,977 Da
NCBI Official Full Name	Anterior pharynx defective 1 homolog A (C. elegans)
NCBI Official Synonym Full Names	APH1A gamma secretase subunit
NCBI Official Symbol	APH1A
NCBI Official Synonym Symbols	APH-1; APH-1A; CGI-78; 6530402N02Rik
NCBI Protein Information	gamma-secretase subunit APH-1A; aph-1alpha; presenilin-stabilization factor; anterior pharynx defective 1 homolog A
UniProt Protein Name	Gamma-secretase subunit APH-1A
UniProt Gene Name	APH1A
UniProt Synonym Gene Names	PSF; APH-1a
UniProt Entry Name	APH1A_HUMAN

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