

APH1a Rabbit pAb

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Product Information

Application IHC-P, IHC-F, IF

Primary Accession Q96BI3
Reactivity Human, Rat

Predicted Mouse, Dog, Pig, Horse, Rabbit

Host Rabbit
Clonality Polyclonal
Calculated MW 28996
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human APH1a

Epitope Specificity 71-170/265

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Endoplasmic reticulum membrane. **SIMILARITY** Belongs to the APH-1 family.

Important NoteThis product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions APH1a 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). It probably represents a stabilizing cofactor for the presentilin homodimer that promotes the formation of a stable complex. Belongs to the APH-1 family.

Additional Information

Gene ID 51107

Other Names Gamma-secretase subunit APH-1A, APH-1a, Aph-1alpha,

Presenilin-stabilization factor, APH1A, PSF

Target/Specificity Widely expressed. Expressed in leukocytes, lung, placenta, small intestine,

liver, kidney, spleen thymus, skeletal muscle, heart and brain. Isoform 1 and

isoform 2 are nearly expressed at the same level.

Dilution IHC-P=1:100-500,IHC-F=1:100-500,Flow-Cyt=1ug/Test

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name APH1A

Synonyms PSF

Function Non-catalytic subunit of the gamma-secretase complex, an endoprotease

complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid- beta precursor protein)

(PubMed:12297508, PubMed:12522139, PubMed:12679784, PubMed:12763021, PubMed:25043039, PubMed:26280335, PubMed:30598546, PubMed:30630874). Required for normal gamma-secretase assembly (PubMed:12471034, PubMed:12522139,

PubMed:<u>12763021</u>, PubMed:<u>19369254</u>). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating

cytosolic CTNNB1 levels (Probable).

Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi

apparatus, Golgi stack membrane; Multi-pass membrane protein. Note=Predominantly located in the endoplasmic reticulum and in the

cis-Golgi

Tissue Location Widely expressed. Expressed in leukocytes, lung, placenta, small intestine,

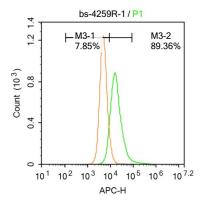
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Background

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Images



Blank control: A431.

Primary Antibody (green line): Rabbit Anti-APH1a

antibody (AP58139) Dilution: 1 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 1 µg /test.

Protocol

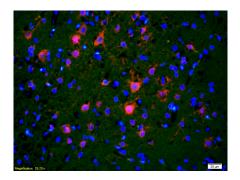
The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

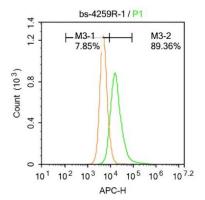
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat

serum,C-0005) at 37°C for 20 min;

Incubation: Anti-APH1a Polyclonal Antibody,



Unconjugated(AP58139) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(AP58139-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.