

## 11-10036: Polyclonal Antibody to APH1A

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	APH1A
<b>Gene ID :</b>	51107
<b>Uniprot ID :</b>	Q96BI3
<b>Format :</b>	Purified
<b>Alternative Name :</b>	APH1A,PSF,CGI-78,UNQ579/PRO1141
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	A partial length recombinant APH1A protein (amino acids 11-245) was used as the immunogen for this antibody.

### Description

APH1A also known as Anterior pharynx-defective 1, is a multi-spanning membrane protein and an integral component of the high molecular weight gamma-secretase complex that also contains presenilin, nicastrin, and Pen-2. The gamma-secretase complex is required for the intramembrane proteolysis of APP (amyloid-beta precursor protein) and Notch. APH1A is essential for gamma-cleavage of APP to enable the intracellular domain to travel to the nucleus. APH1A satisfies three major criteria for a subunit of the gamma-secretase complex in mammalian cells. First, endogenous APH1A, nicastrin, and the presenilin NTF:CTF heterodimers physically interact with each other in vivo and under the conditions that are compatible with gamma-secretase activity. Second, like presenilin and nicastrin, APH1A is required for the intramembrane proteolysis of both APP and Notch. Third, the down-regulation of APH1A like presenilin or nicastrin leads to concurrent reduction of the mature nicastrin or the steady-state levels of the presenilin endoproteolytic fragments, the mature presenilin species within the gamma-secretase complex.

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein A Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Western blot analysis: 1-2 µg/ml

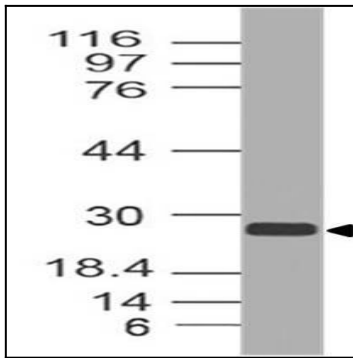


Fig-1: Expression analysis of APh1A. Anti-APh1A antibody (11-10036) was used at 1  $\mu\text{g/ml}$  on h Spleen lysate.