

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human APH1A in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 665404
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human APH1A synthetic peptide SSFERFEIFPKHVTDTRSDARLQY Accession # Q96BI3
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

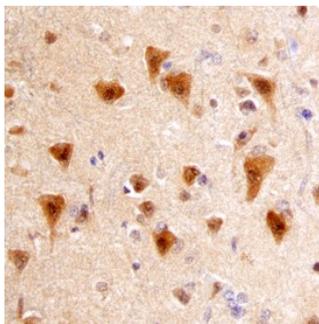
**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

**DATA**

**Immunohistochemistry**



**APH1A in Human Brain.** APH1A was detected in immersion fixed paraffin-embedded sections of human Alzheimer's brain using Mouse Anti-Human APH1A Monoclonal Antibody (Catalog # MAB6908) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neurons. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Anterior pharynx-defective 1 (APH1A) is a widely expressed 36 kDa 7-transmembrane protein found in the endoplasmic reticulum and Golgi. APH1A is a component of the gamma secretase proteolytic complex which cleaves multiple substrates within their transmembrane domains. This activity liberates the intracellular domains of ErbB4, Neuregulin-1, and Notch receptors in addition to the A-beta peptide from the amyloid precursor protein (APP). Alternate splicing generates a short isoform of human APH1A that lacks 18 amino acids at the C-terminus. Within aa 58-69, human APH1A shares 100% aa sequence identity with mouse and rat APH1A.