Datasheet for ABIN6990700

# anti-APH1A antibody (AA 80-130)

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## Overview

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| Quantity: | 0.1 mg |
| Target: | APH1A |
| Binding Specificity: | AA 80-130 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This APH1A antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

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| Immunogen: | APH1 antibody was raised against a 18 amino acid synthetic peptide from near the center of human APH1. The immunogen is located within amino acids 80 - 130 of APH1. |
| Isotype: | IgG |
| Purification: | APH1 Antibody is affinity chromatography purified via peptide column. |

## Target Details

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| Target: | APH1A |
| Alternative Name: | APH1 (APH1A Products) |
| Background: | APH1 Antibody: 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 |

## Target Details

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| | 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. |
| Molecular Weight: | Predicted: 29 kDa<br><br>Observed: 28 kDa |
| Gene ID: | 51107 |
| UniProt: | Q96BI3 |
| Pathways: | Notch Signaling, Neurotrophin Signaling Pathway |

## Application Details

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| Application Notes: | APH1 antibody can be used for detection of APH1 by Western blot at 0.5 - 1 µ,g/mL. Despite its predicted molecular weight, APH1 protein often migrates at aberrant locations in SDS-PAGE. Antibody can also be used for immunohistochemistry starting at 5 µ,g/mL.<br><br>Antibody validated: Western Blot in mouse samples and Immunohistochemistry in human samples. All other applications and species not yet tested. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | APH1 Antibody is supplied in PBS containing 0.02 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,4 °C |
| Storage Comment: | APH1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should |

not be exposed to prolonged high temperatures.

 