

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse APLP-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human APLP-2 or recombinant mouse APLP-2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 354020
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human APLP-1 Gln34-Glu580 Accession # P51693
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

APLP-1 is a transmembrane metalloprotein that is expressed in central neurons. Similar to APP and APLP-2, APLP-1 is susceptible to cleavage by various secretases, generating multiple fragments from the extracellular and intracellular domains. These include peptides similar to the amyloidogenic Aβ peptides and a cytoplasmic fragment that associates with Fe65 family proteins and functions as a transcriptional activator. The extracellular domain contains heparin and collagen binding regions and is 89% identical between human and mouse.

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