Mouse APLP-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3179

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse APLP-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 45% cross-reactivity with recombinant human APLP-1 is observed and less than 1% cross-reactivity with recombinant mouse APLP-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse APLP-1 Gly37-Arg582 Accession # Q03157
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

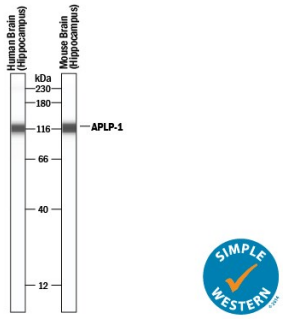
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse APLP-1
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Mouse APLP-1, see our available Western blot detection antibodies
Simple Western	25 µg/mL	Human brain (hippocampus) and mouse brain (hippocampus)

DATA

Simple Western



Detection of Human and Mouse APLP-1 by Simple Western™. Simple Western lane view shows lysates of human brain (hippocampus) and mouse brain (hippocampus), loaded at 0.2 mg/mL. A specific band was detected for APLP-1 at approximately 119 kDa (as indicated) using 25 µg/mL of Goat Anti-Mouse APLP-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3179) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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