



Mouse Anti-Human APLP2 Monoclonal Antibody, clone 408813 (CABT-L451M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects human APLP-2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse APLP-2 or recombinant human APLP-1 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human APLP-2(aa30-680) Accession # Q06481
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	408813
Purification	Protein A or G purified from hybridoma culture supernatant.
Conjugate	Unconjugated
Applications	WB Recommended concentration: WB: 2 µg/mL
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized
Size	100 µg
Buffer	PBS with Trehalose.
Preservative	None

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.
Ship	Wet ice

BACKGROUND

Introduction	Amyloid beta precursor-like protein 2 (APLP-2) is a 120-170 kDa member of the APP family of neuronal type I transmembrane proteins. Its extracellular domain consists of an N-terminal Cys-rich domain, an Asp/Glu-rich acidic region, a Kunitz protease inhibitor (KPI) domain, and a GAG attachment site in the membrane proximal domain. APLP-2 forms both homodimers and heterodimers with APP and APLP-1. Proteolytic cleavage of APLP-2 generates peptides similar to the amyloidogenic A beta peptides and a cytoplasmic fragment that functions as a transcriptional coactivator. Alternate splicing of APLP-2 generates isoforms that lack the KPI domain or contain an insertion that prevents GAG attachment. The extracellular domain of human APLP-2 shares 81% and 93% aa sequence identity with mouse and rat APLP-2, respectively.
Keywords	amyloid beta (A4) precursor-like protein 2;amyloid precursor protein homolog HSD-2;Amyloid protein homolog;amyloid-like protein 2;APLP2;APLP-2;APP;APPHCDEI box-binding protein;APPL2;CDEBP;WALPLP2;YWK-II

GENE INFORMATION

Gene Name	APLP2
Entrez Gene ID	334
UniProt ID	Q06481
