Human APPL Antibody

Monoclonal Mouse IgG_{2B} Clone # 709208

Catalog Number: MAB7075

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human APPL in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 709208
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human APPL Met1-Ile373 Accession # Q9UKG1
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 as a 0.2 μm filtered solution in PBS.

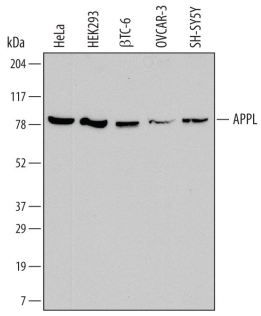
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Human and Mouse APPL by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, HEK293 human embryonic kidney cell line, βTC-6 mouse beta cell insulinoma cell line, OVCAR-3 human ovarian carcinoma cell line, and SH-SY5Y human neuroblastoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human APPL Monoclonal Antibody (Catalog # MAB7075) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for APPL at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

APPL, also known as DCC interacting protein 13 alpha (DIP13 alpha), is a widely expressed approximately 80 kDa intracellular adaptor protein. APPL contains two coiled-coil domains (aa 215-259 and aa 621-673), a pleckstrin homology domain (aa 277-375) and a phosphotyrosine interaction domain (PID) (aa 496-656). These domains and the cytoplasmic and nuclear localization of APPL enable it to associate with a range of molecules involved in multiple pathways. APPL mediates the insulin-sensitizing and anti-inflammatory effects of Adiponectin through direct interactions with AdipoR1 and AdipoR2. Within aa 2-373, human APPL shares 99% aa sequence identity with mouse and rat APPL.

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