Human/Mouse/Rat PP2Cε/PPM1L Antibody

Monoclonal Mouse IgG_{2B} Clone # 700612

Catalog Number: MAB6914

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human PP2C ε/PPPM1L in direct ELISAS and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human PP2C is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 700612
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PP2C ε/PPPM1L Asp43-Arg178 Accession # Q5SGD2
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.

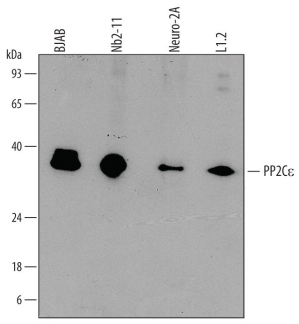
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat PP2C ε/PPM1L by Western Blot. Western blot shows lysates of BJAB human Burkitt's lymphoma cell line, Nb2-11 rat lymphoma cell line, Neuro-2A mouse neuroblastoma cell line, and L1.2 mouse pro-B cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human PP2C ε/PPM1L Monoclonal Antibody (Catalog # MAB6914) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PP2C ε/PPM1L at approximately 35 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

PP2C epsilon, also known as PPM1L, is a 34 kDa (predicted) widely expressed Ser/Thr phosphatase. It consists of a 25 amino acid (aa) extracellular domain, a 17 aa transmembrane segment, and a 318 aa cytoplasmic region (aa 43-360) which contains the phosphatase domain (aa 91-344). Alternate splicing generates additional isoforms of human PP2C ε with 179 aa or 127 aa N-terminal truncations or a 166 aa C-terminal truncation. The PP2C ε-mediated dephosphorylation of TAK1 and ASK1 is regulated by oxidative stress and inflammatory cytokines. Loss of PP2C ε function is associated with the development of metabolic syndrome. Within aa 43-178, human PP2C ε shares 99% aa sequence identity with mouse and rat PP2C ε.

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