Human/Mouse/Rat PP2Cε/PPM1L Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 700612

Catalog Number: FAB6914V

100 µg

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

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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