

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	<i>E. coli</i> -derived recombinant human PP2C ε/PPPM1L Asp43-Arg178 Accession # Q5SGD2
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.