Mouse Protein phosphatase 1B (PPM1B) ELISA Kit

Catalog No: #EK8366

Package Size: #EK8366-1 48T #EK8366-2 96T

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Description

Product Name	Mouse Protein phosphatase 1B (PPM1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	MGC21657; PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX; protein phosphatase 1B|protein phosphatase 2C-like protein
Accession No.	P36993
Uniprot	P36993
GeneID	19043;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PPM1B in samples. An antibody specific for PPM1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPPM1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PPM1B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PPM1B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PPM1B is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional transcript variants have been described, but currently do not represent full-length sequences.

The deduced 479-amino acid protein shows high sequence similarity to other mammalian PP2C-beta isoforms but has an extended and unique C-terminal portion.

Note: This product is for in vitro research use only