

# Mouse Serine/threonine-protein phosphatase PP1-beta catalytic subunit (PPP1CB) ELISA Kit

Catalog No: #EK8363

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)

Package Size: #EK8363-1 48T #EK8363-2 96T

Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Mouse Serine/threonine-protein phosphatase PP1-beta catalytic subunit (PPP1CB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	MGC3672; PP-1B; PPP1CD; OTTHUMP00000200968 protein phosphatase 1; catalytic subunit; beta protein phosphatase 1; catalytic subunit; delta isoform protein phosphatase 1-beta protein phosphatase 1-del
Accession No.	P62141
Uniprot	P62141
GeneID	19046;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:3.9 pg/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:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate PPP1CB in samples. An antibody specific for PPP1CB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PPP1CB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PPP1CB 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 PPP1CB bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Protein phosphatase-1 (PP1) is 1 of 4 major serine/threonine-specific protein phosphatases involved in the dephosphorylation of a variety of proteins. These enzymes work in opposition to the protein kinases to control the level of phosphorylation. PP1 has 3 catalytic subunits, designated alpha, beta, and gamma. PP1-beta is also referred to as PP1-delta. PPP1Cb is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory.

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Note: This product is for in vitro research use only