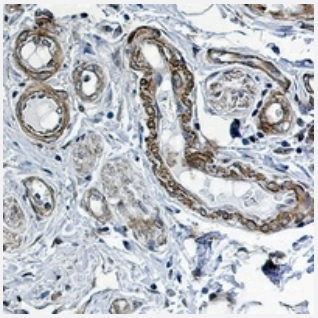
RecomAb™ Sm Size

# PPP1CB recombinant monoclonal antibody

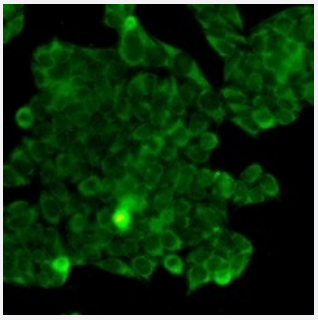
Catalog # RAB09201 Size 50 uL

## Applications



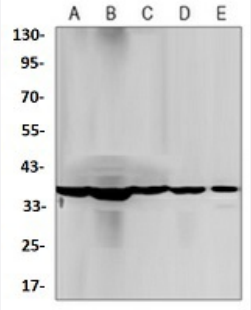
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human colon cancer formalin fixed paraffin embedded tissue section using PPP1CB recombinant monoclonal antibody (Cat # RAB09201). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.61). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



### Immunofluorescence

Immunofluorescent analysis of HeLa cells with PPP1CB recombinant monoclonal antibody (Cat # RAB09201). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.




### Western Blot

Western blot analysis of K562 (A), rat brain (B), C6 (C), NIH3T3 (D), Hela (E) whole cell lysates with PPP1CB recombinant monoclonal antibody (Cat # RAB09201).

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## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human PPP1CB. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide of human PPP1CB. |
| **Theoretical MW (kDa)** | 36 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | Recognizes endogenous levels of PP1 beta protein. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Immunogen affinity chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry (1:50-1:100)<br>Immunofluorescence (1:50-1:100)<br>Immunohistochemistry (1:50-1:100)<br>Immunoprecipitation (1:10-1:50)<br>Western Blot (1:500-1:1000) |
| **Storage Buffer** | In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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- Western Blot

Western blot analysis of K562 (A), rat brain (B), C6 (C), NIH3T3 (D), Hela (E) whole cell lysates with PPP1CB recombinant monoclonal antibody (Cat # RAB09201).

## Gene Info — PPP1CB

| | |
|---|---|
| **Entrez GeneID** | 5500 |
| **Protein Accession#** | P62140 |
| **Gene Name** | PPP1CB |
| **Gene Alias** | MGC3672, PP-1B, PPP1CD |
| **Gene Description** | protein phosphatase 1, catalytic subunit, beta isoform |
| **Omim ID** | 600590 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene 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 regulati on of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractili ty, protein synthesis, and HIV-1 viral transcription. Mouse studies suggest that PP1 functions as a suppressor of learning and memory. Two alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq |
| **Other Designations** | protein phosphatase 1, catalytic subunit, beta\|protein phosphatase 1, catalytic subunit, delta isofo rm\|protein phosphatase 1-beta\|protein phosphatase 1-delta\|serine/threonine protein phosphatase PP1-beta catalytic subunit |

## Pathway

- Focal adhesion
- Insulin signaling pathway
- Long-term potentiation

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- Regulation of actin cytoskeleton
- Vascular smooth muscle contraction

## Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease

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