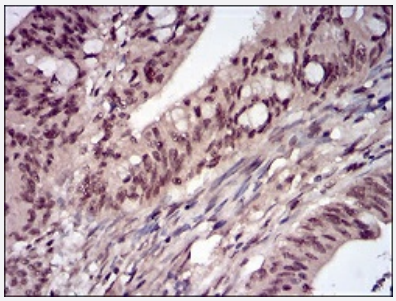
PPP1CB monoclonal antibody, clone 8A7C7

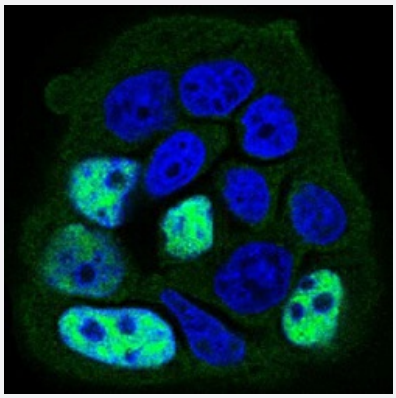
Catalog # MAB16601 Size 100 ug

Applications



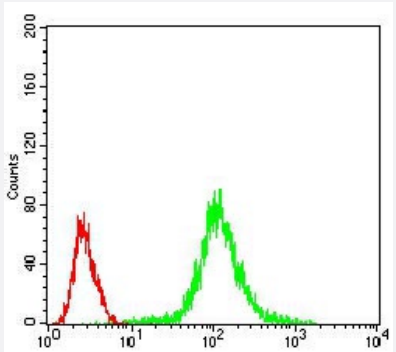
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded rectal cancer tissues with PPP1CB monoclonal antibody.



Immunocytochemistry

Immunocytochemical staining of MCF-7 cells with PPP1CB monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



Flow Cytometry

Flow cytometric analysis of Jurkat cells with PPP1CB monoclonal antibody (green) and negative control (red).

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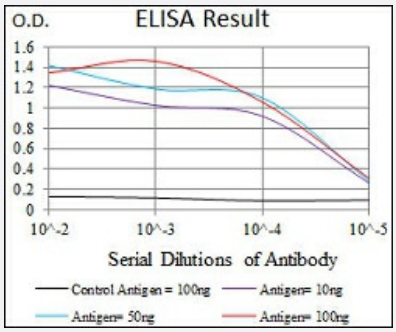
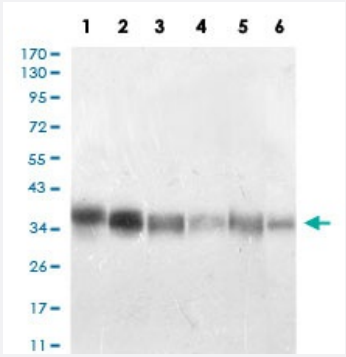


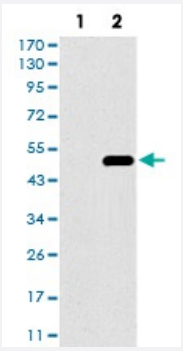
Enzyme-linked Immunoabsorbent Assay

ELISA analysis of PPP1CB monoclonal antibody, clone 8A7C7.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Jurkat cell; Lane 2: A431cell; Lane 3: Hela cell; Lane 4: HepG2 cell; Lane 5: HEK293 cell; Lane 6: MCF-7 cell with PPP1CB monoclonal antibody.



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: PPP1CB-hIgGFc transfected HEK293 cell with PPP1CB monoclonal antibody.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human PPP1CB.
Immunogen	Recombinant protein corresponding to amino acid 174-327 of human PPP1CB from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	37.2
Reactivity	Human
Form	Liquid
Isotype	IgG1

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Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

  Immunohistochemical staining of paraffin-embedded rectal cancer tissues with PPP1CB monoclonal antibody.

- Immunocytochemistry

  Immunocytochemical staining of MCF-7 cells with PPP1CB monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

- Flow Cytometry

  Flow cytometric analysis of Jurkat cells with PPP1CB monoclonal antibody (green) and negative control (red).

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of PPP1CB monoclonal antibody, clone 8A7C7.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: Jurkat cell; Lane 2: A431cell; Lane 3: Hela cell; Lane 4: HepG2 cell; Lane 5: HEK293 cell; Lane 6: MCF-7 cell with PPP1CB monoclonal antibody.

- Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: HEK293 cell; Lane 2: PPP1CB-hIgGFc transfected HEK293 cell with PPP1CB monoclonal antibody.

Gene Info — PPP1CB

Entrez GeneID	5500

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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
- Regulation of actin cytoskeleton
- Vascular smooth muscle contraction

Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease

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