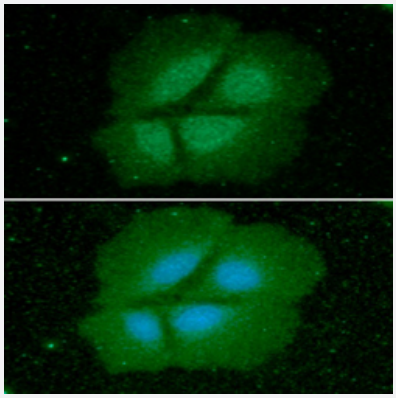
PPIB monoclonal antibody, clone k2E2

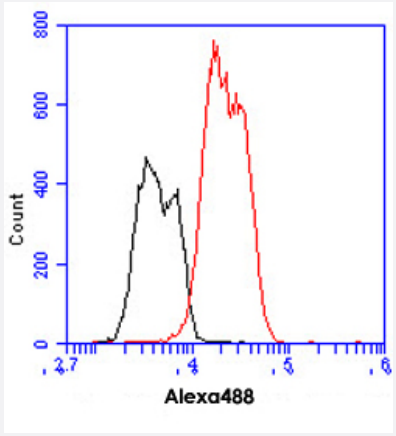
Catalog # MAB2033 Size 100 uL

Applications



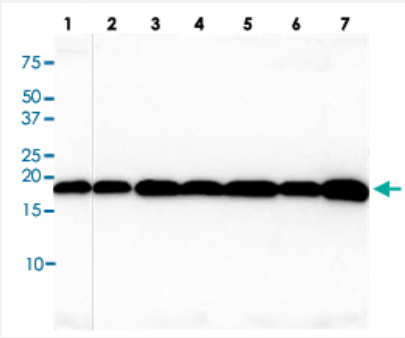
Immunofluorescence

Immunofluorescence analysis of Hep3B cells. The cell was stained with PPIB monoclonal antibody, clone k2E2 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Flow Cytometry

Flow cytometric analysis of Hep3B cell line, staining at 2-5 ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Jurkat cell lysate, Lane 2: K562 cell lysate, Lane 3: 293T cell lysate, Lane 4: A549 cell lysate, Lane 5: MCF7 cell lysate, Lane 6: SK-OV-3 cell lysate, Lane 7: LnCap cell lysate.

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Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant PPIB.
Immunogen	Recombinant protein corresponding to amino acids 26-216 of human PPIB.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry (1:100) Immunofluorescence (1:100) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°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

- Immunofluorescence

  Immunofluorescence analysis of Hep3B cells. The cell was stained with PPIB monoclonal antibody, clone k2E2 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Immunocytochemistry

- Flow Cytometry

  Flow cytometric analysis of Hep3B cell line, staining at 2-5 ug for $1x10^6$cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

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- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: Jurkat cell lysate, Lane 2: K562 cell lysate, Lane 3: 293T cell lysate, Lane 4: A549 cell lysate, Lane 5: MCF7 cell lysate, Lane 6: SK-OV-3 cell lysate, Lane 7: LnCap cell lysate.

Gene Info — PPIB

Entrez GeneID	5479
Protein Accession#	P23284
Gene Name	PPIB
Gene Alias	CYP-S1, CYPB, MGC14109, MGC2224, SCYLP
Gene Description	peptidylprolyl isomerase B (cyclophilin B)
Omim ID	123841
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cyclosporine-binding protein and is mainly located within th e endoplasmic reticulum. It is associated with the secretory pathway and released in biological flui ds. This protein can bind to cells derived from T- and B-lymphocytes, and may regulate cyclospori ne A-mediated immunosuppression. [provided by RefSeq
Other Designations	PPIase|S-cyclophilin|cyclophilin B|cyclophilin-like protein|peptidyl-prolyl cis-trans isomerase B|pep tidylprolyl isomerase B|rotamase

Publication Reference

- A systems wide mass spectrometric based linear motif screen to identify dominant in-vivo interacting proteins for the ubiquitin ligase MDM2.

  Nicholson J, Scherl A, Way L, Blackburn EA, Walkinshaw MD, Ball KL, Hupp TR.

  Cellular Signalling 2014 Jun; 26(6):1243.

  Application: ELISA, WB, Human, MCF-7 cells

- Cyclophilin B is a functional regulator of hepatitis C virus RNA polymerase.

  Watashi K, Ishii N, Hijikata M, Inoue D, Murata T, Miyanari Y, Shimotohno K.

  Molecular Cell 2005 Jul; 19(1):111.

  Application: IF, IP, WB-Tr, Human, Huh7, MH-14 cells

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- CD147 is a signaling receptor for cyclophilin B.

  Yurchenko V, O'Connor M, Dai WW, Guo H, Toole B, Sherry B, Bukrinsky M.

  Biochemical and Biophysical Research Communications 2001 Nov; 288(4):786.

- Human cyclophilin B: a second cyclophilin gene encodes a peptidyl-prolyl isomerase with a signal sequence.

  Price ER, Zydowsky LD, Jin MJ, Baker CH, McKeon FD, Walsh CT.

  PNAS 1991 Mar; 88(5):1903.

Disease

- Disease Progression
- Disease Susceptibility
- HIV Infections

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