Product information

Monoclonal anti-human Cyclophilin B antibody (clone k2E2)

Mouse IgG_1, κ

Cat. No. IBACB0825

Immunogen: Recombinant human Cyclophilin B (26-216aa) purified from *E. coli*

NCBI Accession No.: NP_000933

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human Cyclophilin B mAb, clone k2E2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Cyclophilin B protein.

Description: Cyclophilin B (also known as PPIB, peptidylpropyl isomerase B) is a cyclosporine-binding protein and is mainly located within the endoplasmic reticulum. It is associated with the secretory pathway and released in biological fluids. This protein can bind to cells derived from T- and B-lymphocytes, and may regulate cyclosporine A-mediated immunosuppression. Cyclophilin B is necessary for the prolactin-induced proliferation, cell growth, and the nuclear retrotransport of prolactin.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, Flow cytometry, ICC/IF

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
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Phone: (888) 523-1246 Fax.: (763) 780-2988
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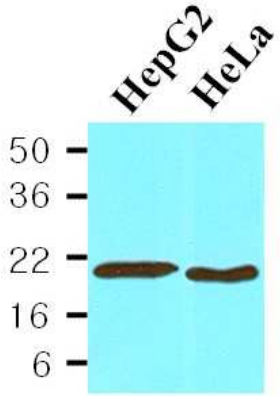
Product information

Western blot analysis

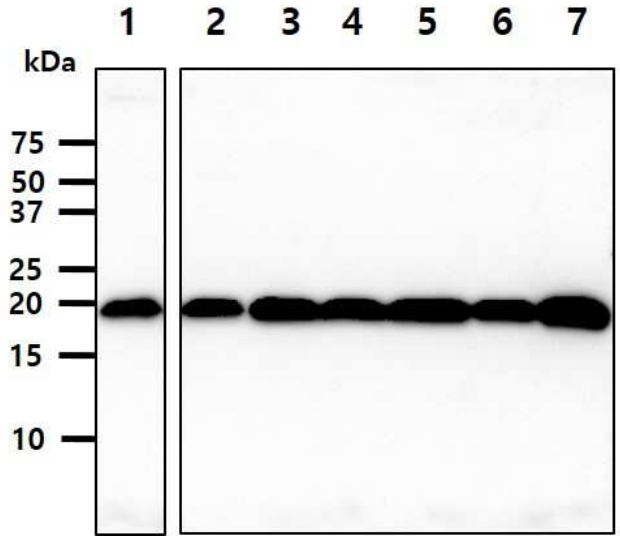
Cell lysates of HepG2(30ug) and HeLa(30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Cyclophilin B (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cyclophilin B antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

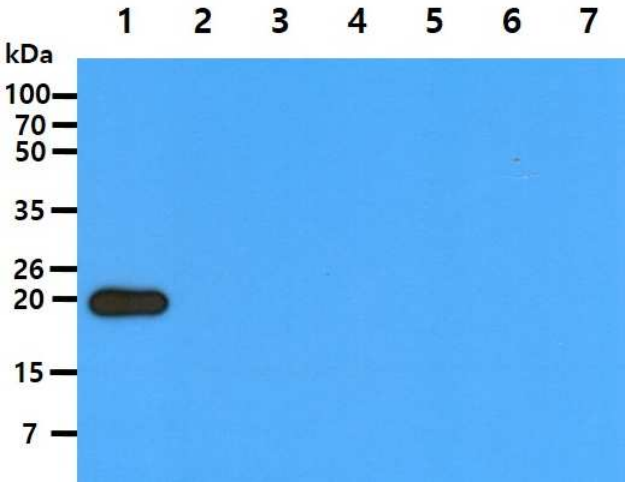
Lane 1.: Jurkat cell lysate
Lane 2.: K562 cell lysate
Lane 3.: 293T cell lysate
Lane 4.: A549 cell lysate
Lane 5.: MCF7 cell lysate
Lane 6.: SK-OV-3 cell lysate
Lane 7.: LnCap cell lysate



Western blot analysis

The Recombinant Protein (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cyclophilin B antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Cyclophilin B Recombinant Protein
Lane 2.: Cyclophilin A Recombinant Protein
Lane 3.: Cyclophilin D Recombinant Protein
Lane 4.: Cyclophilin E Recombinant Protein
Lane 5.: Cyclophilin F Recombinant Protein
Lane 6.: Cyclophilin G Recombinant Protein
Lane 7.: Cyclophilin H Recombinant Protein



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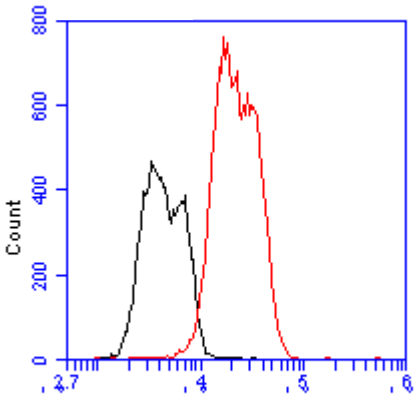
Flow cytometry

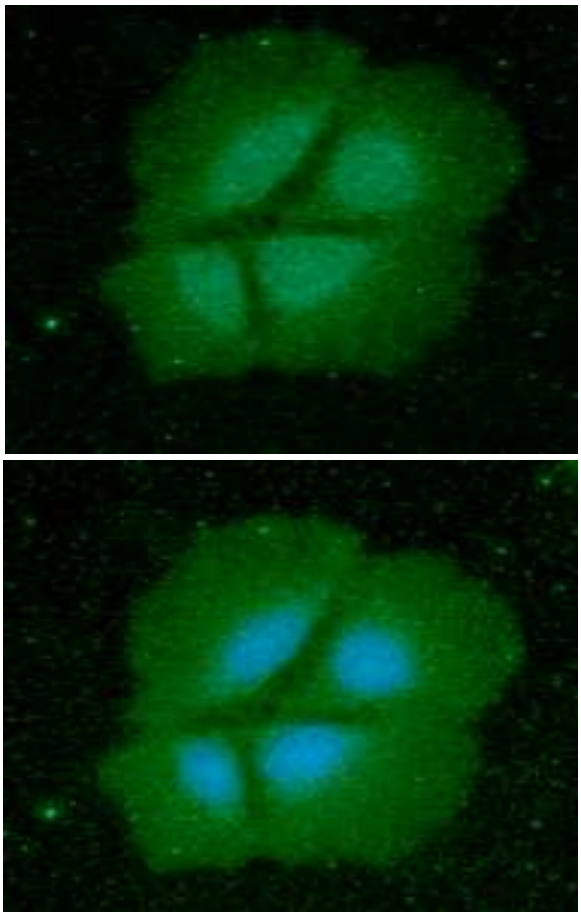
Flow cytometry analysis of CyclophilinB in Hep3B cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-Cyclophilin B

ICC/IF analysis

ICC/IF analysis of Cyclophilin B in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Cyclophilin B antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Watashi K., *et al*. (2005) *Mol Cell.* **19(1):** 111-112

Yurchenko V., *et al*. (2001) *Biochem Biophys Res Commun.* **288(4):** 786-788

E.Roydon P., *et al*. (1991) *Proc Natl Acad Sci USA*. **88:** 1903-1907

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