Human Cyclophilin B/PPIB antibody

Catalog Number: ACB0825

PRODUCT INFORMATION

Catalog number
ACB0825

Clone No.
k2E2

Product type
Monoclonal Antibody

UnitProt No.
P23284

NCBI Accession No.
NP_000933

Alternative Names
Peptidyl-prolyl cis-trans isomerase B, Peptidylprolyl isomerase B, PPIase B, Cphn-2, Cyclophilin B, CYP-20b, CYPB, CYP-S1, OI9, Rotamase B, S-cyclophilin, SCYLP

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

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

Isotype
IgG1 kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF, FACS

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

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

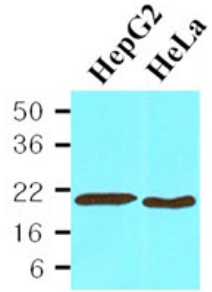
Cyclophilin B (also known as PPIB, peptidylpropyl isomerase B) is a cyclosporine-binding protein and is mainly located within the endoplasmic reticulum. It is associated with the secretory pathway and released in biological fluids. This protein can bind to cells derived from T- and B-lymphocytes, and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

General References

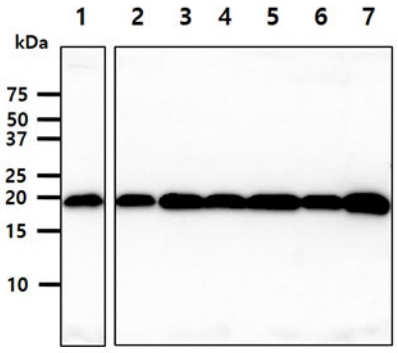
Watashi K, et al., (2005) Mol Cell 19(1):111-112.
Yurchenko V, et al., (2001) Biochem Biophys Res Commun 288(4):786-788.
E.Roydon P, et al., (1991) Proc Natl Acad Sci USA 88:1903-1907.

DATA

Western blot analysis (WB)



The cell lysates of HepG2 (30ug) and HeLa (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Cyclophilin B (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system .



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

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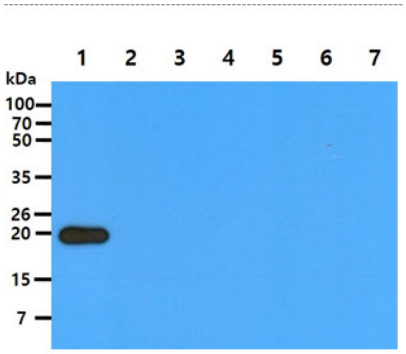
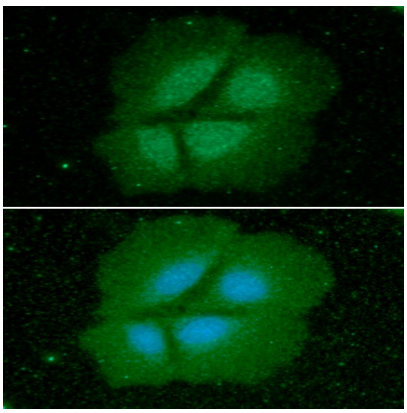


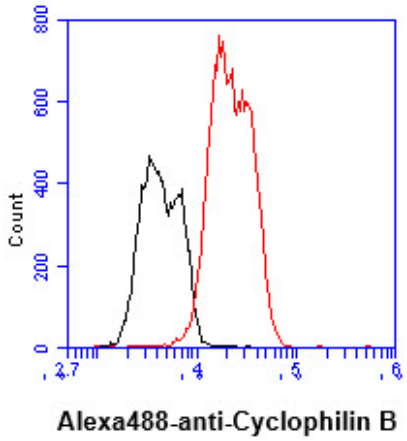
The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cyclophilin B antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Cyclophilin B recombinant protein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

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of Cyclophilin B in Hep3B cells. The cell was stained with ACB0825 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



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