

Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control ab178397

KO 評価済 リコンビナント RabMAb

★★★★★ 4 Abreviews 19 References 画像数 6

製品の概要

| | |
|--------------|--|
| 製品名 | Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control |
| 製品の詳細 | Rabbit monoclonal [EPR12703(B)] to Cyclophilin B - Loading Control |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: WB 適用なし: Flow Cyt, ICC/IF or IHC-P |
| 種交差性 | 交差種: Mouse, Rat, Human |
| 免疫原 | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| ポジティブ・コントロール | WB: HepG2, HeLa, NIH/3T3, PC-12, HAP1, Jurkat, U87-MG and A431 cell lysates, mouse and rat heart tissue lysates. |
| 特記事項 | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . |

製品の特性

| | |
|-------|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| バッファー | Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| 精製度 | Protein A purified |
| ポリ/モノ | モノクローナル |
| クローン名 | EPR12703(B) |

アイソタイプ

IgG

アプリケーション

The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab178397の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|---|
| WB | ★★★★★ (4) | 1/1000 - 1/10000. Predicted molecular weight: 24 kDa. |

追加情報

Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

ターゲット情報

機能

PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

関連疾患

Defects in PPIB are the cause of osteogenesis imperfecta type 9 (OI9) [MIM:259440]. OI9 is a connective tissue disorder characterized by bone fragility, low bone mass and bowing of limbs due to multiple fractures. Short limb dwarfism and blue sclerae are observed in some but not all patients.

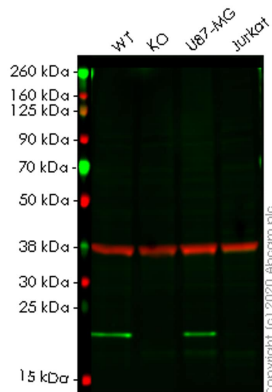
配列類似性

Belongs to the cyclophilin-type PPlase family. PPlase B subfamily.
Contains 1 PPlase cyclophilin-type domain.

細胞内局在

Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

画像



Western blot - Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397)

All lanes : Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397) at 1/1000 dilution

Lane 1 : Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : PPIB knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 3 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate

Lane 4 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW)

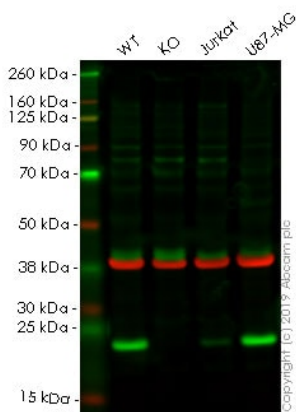
preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 24 kDa

Observed band size: 24 kDa

Lanes 1-4: Merged signal (red and green). Green - ab178397 observed at 24 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab178397 Anti-Cyclophilin B antibody [EPR12703(B)] was shown to specifically react with Cyclophilin B in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab261746** (knockout cell lysate **ab257037**) was used. Wild-type and Cyclophilin B knockout samples were subjected to SDS-PAGE. ab178397 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397)

All lanes : Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397) at 1 µg/ml

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : PPIB knockout HAP1 whole cell lysate

Lane 3 : Jurkat whole cell lysate

Lane 4 : U87-MG whole cell lysate

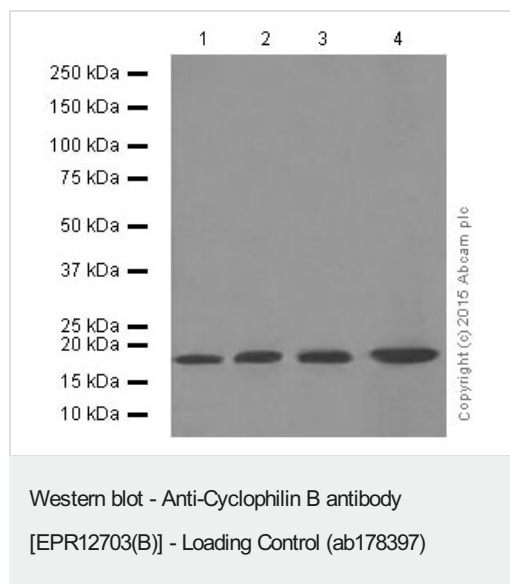
Lysates/proteins at 20 µg per lane.

Predicted band size: 24 kDa

Lanes 1 -4: Merged signal (red and green). Green - ab178397 observed at 24 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab178397 was shown to recognize PPIB in wild-type HAP1 cells as signal was lost at the expected MW in PPIB knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and PPIB knockout samples were

subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab178397 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397) at 1/10000 dilution (purified)

Lane 1 : Mouse heart tissue lysate

Lane 2 : NIH/3T3 cell lysate

Lane 3 : Rat heart tissue lysate

Lane 4 : PC-12 cell lysate

Lysates/proteins at 20 µg per lane.

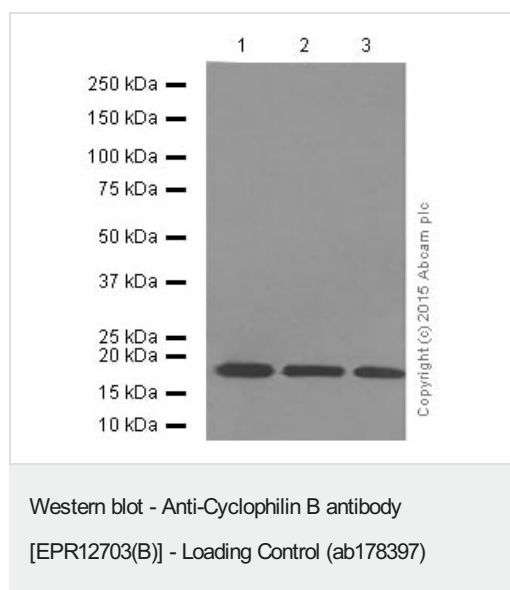
Secondary

All lanes : Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 24 kDa

Observed band size: 18 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397) at 1/10000 dilution (purified)

Lane 1 : HepG2 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : A431 cell lysate

Lysates/proteins at 20 µg per lane.

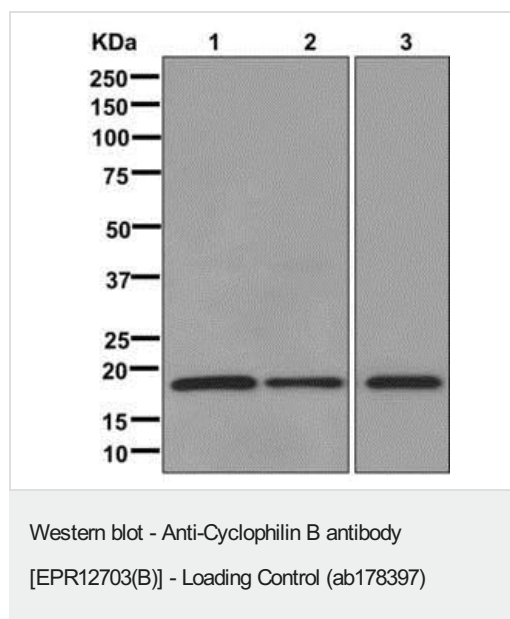
Secondary

All lanes : Peroxidase-conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

Predicted band size: 24 kDa

Observed band size: 18 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



All lanes : Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397) at 1/1000 dilution

Lane 1 : HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate

Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 3 : A431 (Human epidermoid carcinoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 24 kDa

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Cyclophilin B antibody [EPR12703(B)] - Loading Control (ab178397)

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