


Product datasheet

Anti-Cyclophilin 40 antibody [EPR14845(B)] ab181983

KO **VALIDATED** Recombinant **RabMAb**

[3 References](#) [5 Images](#)

Overview

Product name	Anti-Cyclophilin 40 antibody [EPR14845(B)]
Description	Rabbit monoclonal [EPR14845(B)] to Cyclophilin 40
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, JAR, HepG2 and K-562 cell lysate; Human fetal brain lysate; Recombinant Human Cyclophilin 40 protein (BSA and azide free) (ab173064). IHC-P: Human transitional cell carcinoma of bladder. ICC/IF: K562 cell lysate.
General notes	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 .

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number EPR14845(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181983 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/10000 - 1/50000. Predicted molecular weight: 41 kDa.
ICC/IF		1/500.

Target

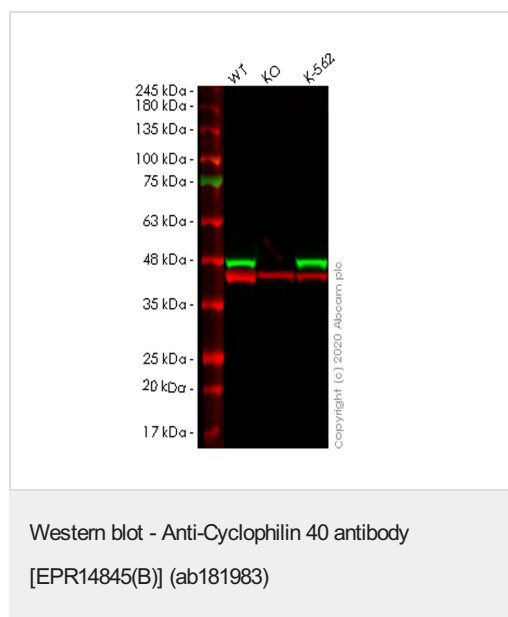
Function PPases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Tissue specificity Widely expressed.

Sequence similarities Belongs to the cyclophilin-type PPase family. PPase D subfamily.
Contains 1 PPase cyclophilin-type domain.
Contains 3 TPR repeats.

Cellular localization Cytoplasm.

Images



All lanes : Anti-Cyclophilin 40 antibody [EPR14845(B)]
(ab181983) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : PPID knockout HeLa cell lysate

Lane 3 : K-562 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

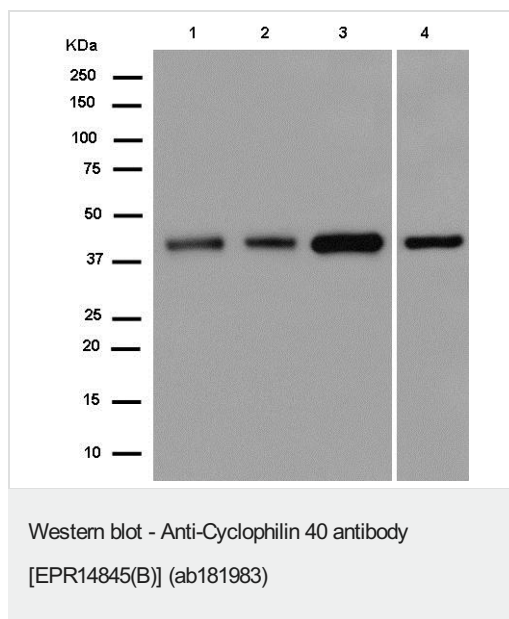
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW)
preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 41 kDa

Observed band size: 47 kDa

Lanes 1-3: Merged signal (red and green). Green - ab181983 observed at 47 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab181983 Anti-Cyclophilin 40 antibody [EPR14845(B)] was shown to specifically react with Cyclophilin 40 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265788** (knockout cell lysate **ab257600**) was used. Wild-type and Cyclophilin 40 knockout samples were subjected to SDS-PAGE. ab181983 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.



All lanes : Anti-Cyclophilin 40 antibody [EPR14845(B)] (ab181983) at 1/20000 dilution

Lane 1 : Human fetal brain

Lane 2 : JAR

Lane 3 : K562

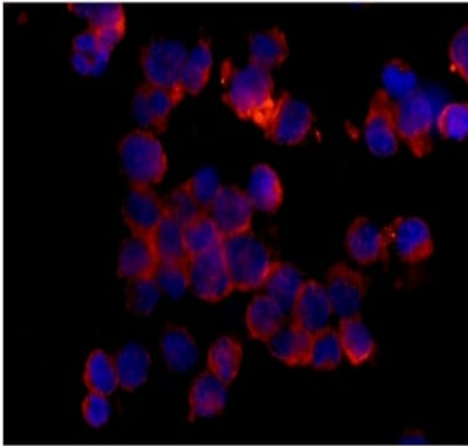
Lane 4 : HepG2

Lysates/proteins at 20 µg per lane.

Secondary

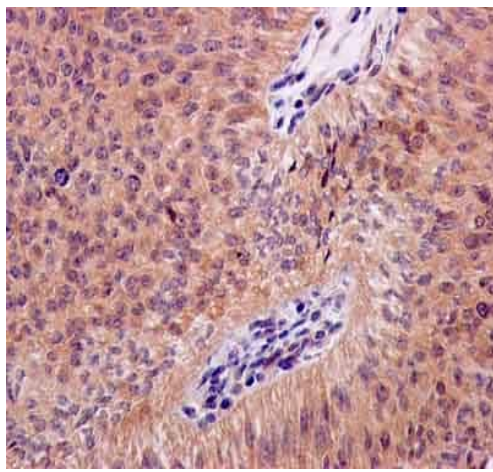
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 41 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Cyclophilin 40 antibody [EPR14845(B)] (ab181983)

Immunofluorescence staining of K562 cells labeling Cyclophilin 40 with ab181983 at 1/200 dilution followed by labeling with Goat anti rabbit IgG(Alexa Fluor® 555) antibody (1/500 dilution) and counter-staining with Dapi (blue)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclophilin 40 antibody [EPR14845(B)] (ab181983)

Immunohistochemical analysis of paraffin embedded Human transitional cell carcinoma of bladder labeling Cyclophilin 40 with ab181983 at 1/50 dilution followed by labeling with secondary Ready to use HRP Polymer for Rabbit IgG and hematoxylin staining. Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

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 40 antibody [EPR14845(B)]
(ab181983)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors