Overview

Product name  Anti-Cyclophilin A antibody
Description  Rabbit polyclonal to Cyclophilin A
Host species  Rabbit
Tested applications  Suitable for: IHC-P, WB, ICC/IF
Species reactivity  Reacts with: Mouse, Rat, Human
Predicted to work with: Cow, Dog, Pig, Monkey, Gorilla, Chinese hamster, Orangutan
Immunogen  Synthetic peptide conjugated to KLH derived from within residues 100 to the C-terminus of Human Cyclophilin A. Read Abcam's proprietary immunogen policy (Peptide available as ab42406.)
Positive control  Recombinant human Cyclophilin A protein (ab86219) can be used as a positive control in WB. This antibody gave a positive signal in the following human lysates: HeLa (Human epithelial carcinoma cell line) whole cell A431 (Human epithelial carcinoma cell line) whole cell Lymph node (Human) whole cell - adult normal tissue Thymus tissue This antibody gave a positive signal in the following rat lysate: Lung tissue

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer  Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab41684 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function

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

Sequence similarities

Belongs to the cyclophilin-type PPIase family. PPIase A subfamily. Contains 1 PPIase cyclophilin-type domain.

Cellular localization

Cytoplasm.

Images

Western blot - Anti-Cyclophilin A antibody (ab41684)

All lanes: Anti-Cyclophilin A antibody (ab41684) at 1 µg/ml

Lane 1: HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2: A431 (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 3: Human lymph node tissue lysate - total protein (ab29871)

Lane 4: Human thymus tissue lysate - total protein (ab30146)

Lane 5: Lung (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 18 kDa

Observed band size: 18 kDa
Immunocytochemistry/ Immunofluorescence - Anti-Cyclophilin A antibody (ab41684)

ICC/IF image of ab41684 stained human HeLa cells. The cells were PFA fixed (10 min), permeabilised in TBS-T (20 min) and incubated with the antibody (ab41684, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclophilin A antibody (ab41684)

This image is courtesy of an Abreview submitted by Antibody Solutions Ltd.

ab41684 staining mouse heart and rat thymus tissue sections by IHC-P. Sections were formaldehyde fixed and subjected to heat mediated antigen retrieval in citrate buffer (pH 6) prior to blocking in sequential peroxidase and protein block (prediluted) for 20 minutes at 20°C. The primary antibody was diluted 1/100 and incubated with the samples for 45 minutes at 20°C. A HRP-conjugated goat anti-rabbit antibody was used as the secondary.
Immunocytochemistry/ Immunofluorescence analysis of HepaRG cells labeling Cyclophilin A with ab41684 at 1μg/ml. Cells were fixed with formaldehyde and permeabilized with 0.2% Triton X-100 in PBS. The cells were blocked with 1% milk for 20 minutes at room temperature. A polyclonal goat anti-rabbit Alexa Fluor 488 secondary antibody was used at 1/400 dilution.

ab88202 is a GST-tagged recombinant protein with an expected molecular weight of 50kDa.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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