Product datasheet

Anti-Cyclophilin A antibody ab41684

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:
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) 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
ICC/IF image of ab41684 stained human HeLa cells. The cells were PFA fixed (10 min), permabilised 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).

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 - Anti-Cyclophilin A antibody (ab41684)**

This image is courtesy of an abreview submitted by Alina Macovei.

Immunocytochemistry/ Immunofluorescence analysis of HepaRG cells labeling Cyclophilin A with ab41684 at 1 μg/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.

**Western blot - Anti-Cyclophilin A antibody (ab41684)**

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

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