abcam

Product datasheet

Anti-Transportin 1/MIP antibody ab231669

4 Images

Overview

Product name	Anti-Transportin 1/MIP antibody
Description	Rabbit polyclonal to Transportin 1/MIP
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Cow
Immunogen	Recombinant fragment (His-tag) corresponding to Cow Transportin 1/MIP aa 550-850. (Expressed in E.coli). Database link: **Q3SYU7** Run BLAST with Run BLAST with
Positive control	WB: HEK-293T and HeLa cell lysates; Recombinant cow Transportin 1/MIP protein. ICC/IF: HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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: 7.40 Preservative: 0.02% Sodium azide Constituents: 44.12% PBS, 55.77% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Purification notes	ab231669 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab231669 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
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 102 kDa.
ICC/IF		Use a concentration of 5 - 20 µg/ml.

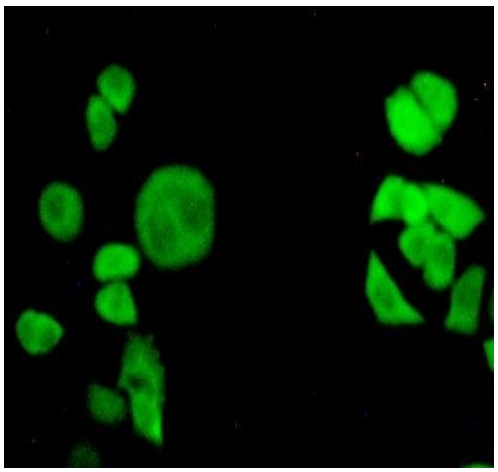
Target

Function Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (By similarity). Involved in nuclear import of M9-containing proteins. In vitro, binds directly to the M9 region of the heterogeneous nuclear ribonucleoproteins (hnRNP), A1 and A2 and mediates their nuclear import. Appears also to be involved in hnRNP A1/A2 nuclear export. Mediates the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones, and SRP19. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev.

Sequence similarities Belongs to the importin beta family.
Contains 8 HEAT repeats.
Contains 1 importin N-terminal domain.

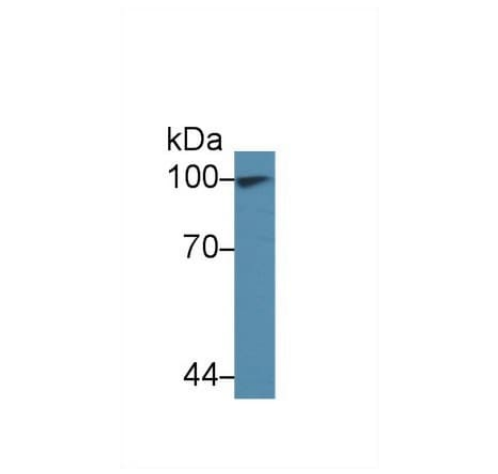
Cellular localization Cytoplasm. Nucleus.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Transportin 1/MIP antibody (ab231669)

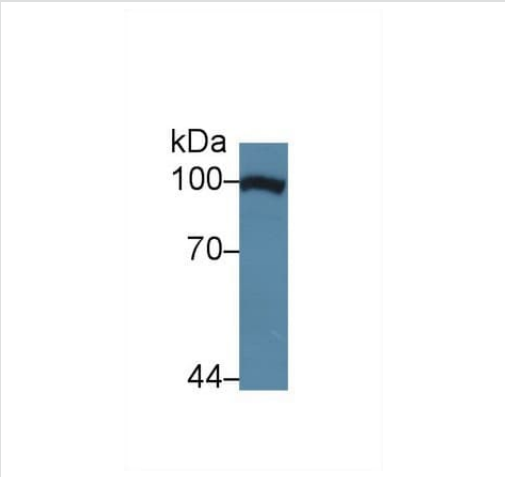
HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells stained for Transportin 1/MIP using ab231669 at 20 µg/ml in ICC/IF.



Western blot - Anti-Transportin 1/MIP antibody (ab231669)

Anti-Transportin 1/MIP antibody (ab231669) at 2 µg/ml + HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

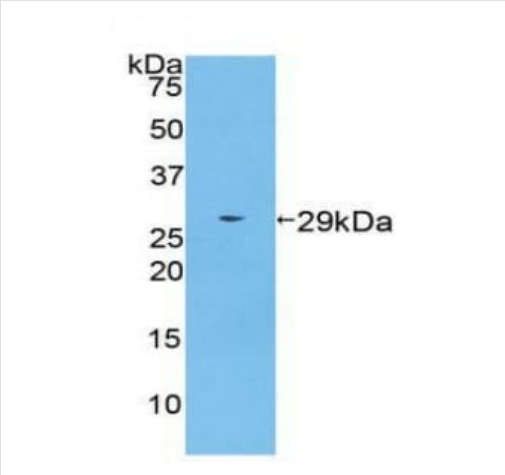
Predicted band size: 102 kDa



Western blot - Anti-Transportin 1/MIP antibody (ab231669)

Anti-Transportin 1/MIP antibody (ab231669) at 2 µg/ml + HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Predicted band size: 102 kDa



Western blot - Anti-Transportin 1/MIP antibody (ab231669)

Anti-Transportin 1/MIP antibody (ab231669) at 5 µg/ml + Recombinant cow Transportin 1/MIP protein

Predicted band size: 102 kDa

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