

Product datasheet

Anti-Importin 9/RANBP9 antibody [EP1353Y] αb52605

Recombinant **RabMAb**

★★★★★ 2 Abreviews 6 References 3 Images

Overview

Product name	Anti-Importin 9/RANBP9 antibody [EP1353Y]
Description	Rabbit monoclonal [EP1353Y] to Importin 9/RANBP9
Host species	Rabbit
Tested applications	Suitable for: WB, IP, Flow Cyt, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human Importin 9/RANBP9 aa 1000 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q96P70
Positive control	Fetal brain lysate; human lymphoma tissue.
General notes	Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. This product was previously labelled as Importin 9 Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . This product is a recombinant rabbit monoclonal antibody .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EP1353Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab52605** 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	★★★★☆	1/1000. Detects a band of approximately 115 kDa (predicted molecular weight: 115 kDa).
IP		1/20.
Flow Cyt		1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.
ICC/IF	★★★★★	1/100 - 1/250.

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). Mediates the nuclear import of H2B histone (By similarity), RPS7 and RPL18A. Prevents the cytoplasmic aggregation of RPS7 and RPL18A by shielding exposed basic domains. May also import H2A, H3, H4 histones (By similarity), RPL4 and RPL6.

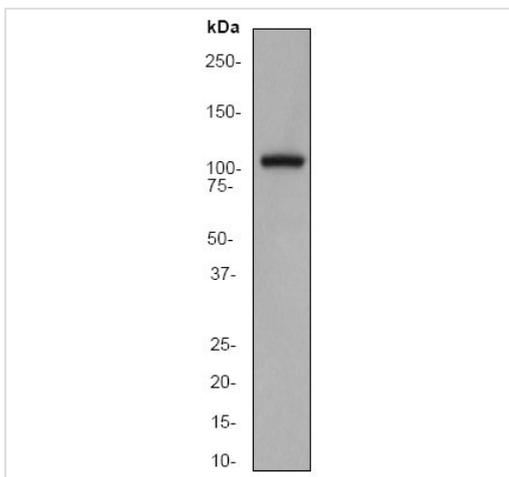
Sequence similarities

Belongs to the importin beta family.
Contains 1 importin N-terminal domain.

Cellular localization

Cytoplasm. Nucleus.

Images



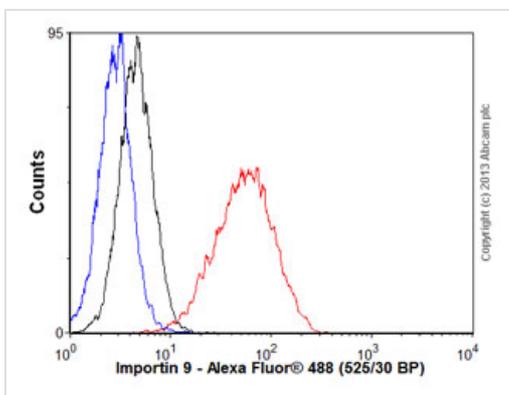
Western blot - Anti-Importin 9/RANBP9 antibody [EP1353Y] (ab52605)

Anti-Importin 9/RANBP9 antibody [EP1353Y] (ab52605) at 1/1000 dilution + Fetal brain lysate at 10 µg

Secondary

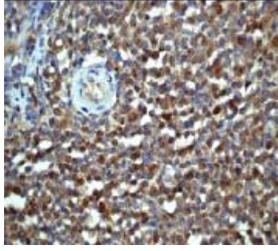
HRP-labelled goat anti-rabbit. at 1/2000 dilution

Predicted band size: 115 kDa



Flow Cytometry - Anti-Importin 9/RANBP9 antibody [EP1353Y] (ab52605)

Overlay histogram showing HeLa cells stained with ab52605 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab52605, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunohistochemical staining of paraffin-embedded human lymphoma using ab52605 at a dilution of 1/50.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Importin 9/RANBP9 antibody [EP1353Y] (ab52605)

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