

Product datasheet

Anti-Importin 9/RANBP9 antibody [EPR1352] α b124710

KO VALIDATED Recombinant RabMAb

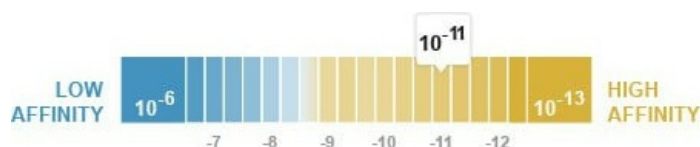
[2 References](#) [5 Images](#)

Overview

Product name	Anti-Importin 9/RANBP9 antibody [EPR1352]
Description	Rabbit monoclonal [EPR1352] to Importin 9/RANBP9
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, SKBR-3, C6, and NIH/3T3 cell lysates and Human brain tissue.
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 -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 2.29 \times 10^{-11}$ M



[Learn more about \$K_D\$](#)

Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture
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	supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR1352
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124710 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

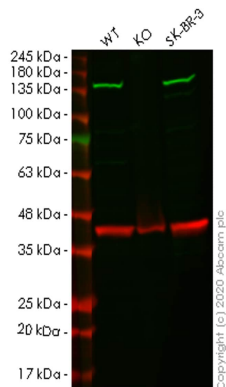
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 116 kDa.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or IP.

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 [EPR1352] (ab124710)

All lanes : Anti-Importin 9/RANBP9 antibody [EPR1352] (ab124710) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : IPO9 knockout HeLa cell lysate

Lane 3 : SK-BR-3 cell lysate

Lysates/proteins at 20 µg per lane.

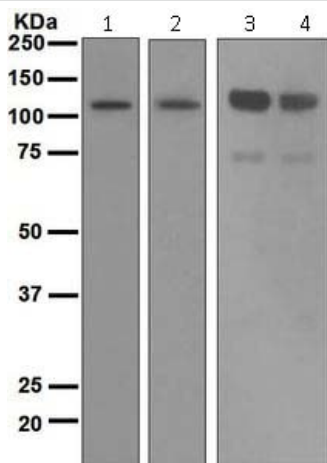
Predicted band size: 116 kDa

Lanes 1-3: Merged signal (red and green). Green - ab124710.

Red - loading control, **ab8245** observed at 36 kDa.

ab124710 was shown to react with IPO9 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab265352** (knockout cell lysate **ab257483**) was used. Wild-type and IPO9 knockout samples were subjected to SDS-PAGE.

ab124710 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 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Importin 9/RANBP9 antibody
[EPR1352] (ab124710)

All lanes : Anti-Importin 9/RANBP9 antibody [EPR1352]
(ab124710) at 1/1000 dilution

Lane 1 : HeLa cell lysate

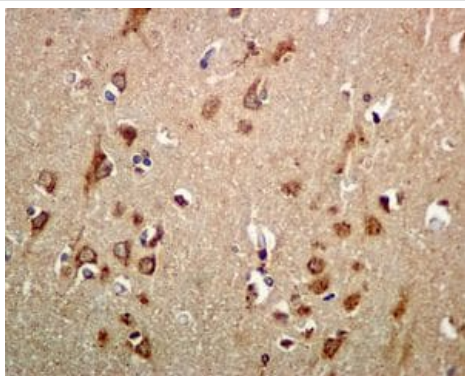
Lane 2 : SKBR-3 cell lysate

Lane 3 : C6 cell lysate

Lane 4 : NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

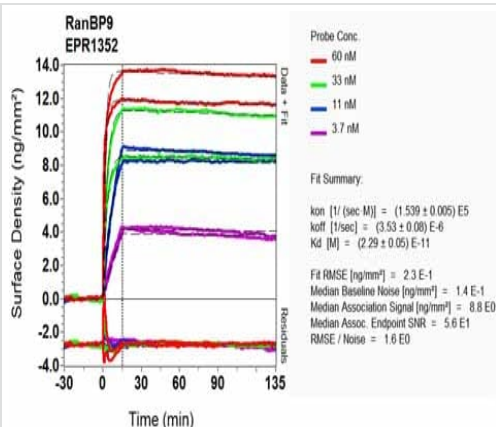
Predicted band size: 116 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Importin 9/RANBP9
antibody [EPR1352] (ab124710)

ab124710, at 1/500 to 1/1000, staining Importin 9/RANBP9 in
Human brain tissue by immunohistochemistry [Paraffin Embedded
Tissues (IHC-P)].

Perform heat mediated antigen retrieval before commencing with
IHC staining protocol.



SPR Scanning - Anti-Importin 9/RANBP9 antibody
[EPR1352] (ab124710)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-Importin 9/RANBP9 antibody [EPR1352]
(ab124710)

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

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