

## Product datasheet

# Anti-Importin 9/RANBP9 antibody [EP1353Y] (Alexa Fluor® 568) ab211211

Recombinant RabMAb

1 Image

### Overview

<b>Product name</b>	Anti-Importin 9/RANBP9 antibody [EP1353Y] (Alexa Fluor® 568)
<b>Description</b>	Rabbit monoclonal [EP1353Y] to Importin 9/RANBP9 (Alexa Fluor® 568)
<b>Host species</b>	Rabbit
<b>Conjugation</b>	Alexa Fluor® 568. Ex: 578nm, Em: 603nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human Importin 9/RANBP9 aa 1000 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: <a href="#">Q96P70</a>
<b>Positive control</b>	Flow Cyt: Neuro 2A cells (differentiated).
<b>General notes</b>	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](#).

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## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, PBS
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1353Y
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab211211** 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
Flow Cyt		1/50.

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## Target

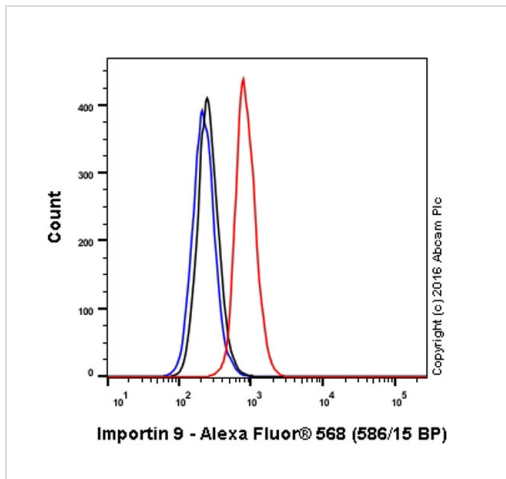
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<b>Function</b>	Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (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.
<b>Sequence similarities</b>	Belongs to the importin beta family. Contains 1 importin N-terminal domain.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

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## Images

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Flow Cytometry - Anti-Importin 9/RANBP9 antibody [EP1353Y] (Alexa Fluor® 568) (ab211211)

Overlay histogram showing Neuro 2A cells stained with ab211211 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab211211, 1/50 dilution) for 30 min at 22°C.

Isotype control antibody (black line) was Rabbit IgG (monoclonal) Alexa Fluor® 568 (ab209613) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 50 mW Yellow/Green laser (561nm) and 586/15 bandpass filter.

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

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