

Importin 9 / RANBP9 Antibody
Rabbit mAb
Catalog # AP92894**Specification****Importin 9 / RANBP9 Antibody - Product Information**

Application	WB, IHC
Primary Accession	Q96P70
Clonality	Monoclonal
Other Names	
Imp9; Imp9a; Imp9b; Ipo9; RanBP9;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	115963 Da

Importin 9 / RANBP9 Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Importin 9 / RANBP9
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Importin 9 / RANBP9 Antibody - Protein Information

Name IPO9 {ECO:0000303|PubMed:30855230, ECO:0000312|HGNC:HGNC:19425}

Function

Nuclear transport receptor that mediates nuclear import of proteins, such as histones, proteasome and actin (PubMed: [11823430](http://www.uniprot.org/citations/11823430), PubMed: [30855230](http://www.uniprot.org/citations/30855230), PubMed: [34711951](http://www.uniprot.org/citations/34711951)). Serves as receptor for nuclear localization signals (NLS) in

cargo substrates (PubMed:11823430). 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 (PubMed:11823430). 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 (PubMed:11823430). 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 (PubMed:11823430). Mediates the import of pre-assembled proteasomes into the nucleus; AKIRIN2 acts as a molecular bridge between IPO9 and the proteasome complex (PubMed:11823430, PubMed:34711951). Mediates the nuclear import of histones H2A, H2B, H4 and H4 (PubMed:11823430, PubMed:30855230). In addition to nuclear import, also acts as a chaperone for histones by preventing inappropriate non-nucleosomal interactions (PubMed:30855230). Mediates the nuclear import of actin (By similarity).

Cellular Location

Cytoplasm. Nucleus

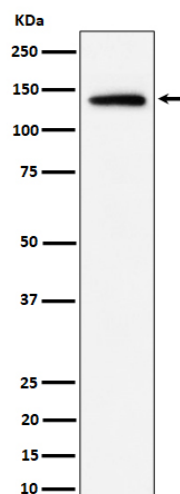
Importin 9 / RANBP9 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Importin 9 / RANBP9 Antibody - Images





Western blot analysis of Importin 9 / RANBP9 expression in HeLa cell lysate.