

# Importin 9 Rabbit mAb

Catalog # AP74841

## Product Information

Application	WB, IP, ICC
Primary Accession	<a href="#">Q96P70</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	115963

## Additional Information

Gene ID	55705
Other Names	IPO9
Dilution	WB~~1/500-1/1000 IP~~N/A ICC~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

Name	IPO9 {ECO:0000303   PubMed:30855230, ECO:0000312   HGNC:HGNC:19425}
Function	<p>Nuclear transport receptor that mediates nuclear import of proteins, such as histones, proteasome and actin (PubMed:<a href="#">11823430</a>, PubMed:<a href="#">30855230</a>, PubMed:<a href="#">34711951</a>). Serves as receptor for nuclear localization signals (NLS) in cargo substrates (PubMed:<a href="#">11823430</a>). 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:<a href="#">11823430</a>). 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:<a href="#">11823430</a>). 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:<a href="#">11823430</a>). Mediates the import of pre-assembled proteasomes into the nucleus; AKIRIN2 acts as a molecular bridge between IPO9 and the proteasome complex (PubMed:<a href="#">11823430</a>, PubMed:<a href="#">34711951</a>). Mediates the nuclear import of histones H2A, H2B, H4 and H4 (PubMed:<a href="#">11823430</a>, PubMed:<a href="#">30855230</a>). In addition to nuclear import, also acts as a chaperone for histones by</p>

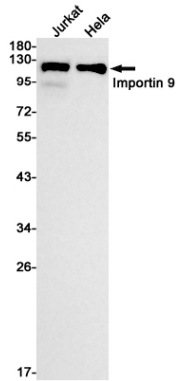
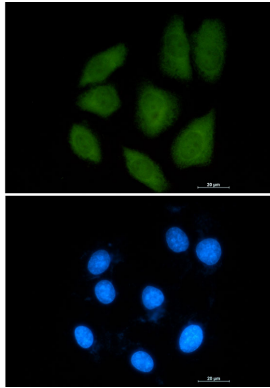
preventing inappropriate non-nucleosomal interactions (PubMed:[30855230](#)).  
Mediates the nuclear import of actin (By similarity).

## Cellular Location

Cytoplasm. Nucleus

## Images

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