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KD-Validated Anti-Importin 9 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1546

Product Information

Application	WB, FC
Primary Accession	Q96P70
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB5990
Calculated MW	115963
Gene Name	IPO9
Aliases	IPO9; Importin 9; Imp9; Ran-Binding Protein 9; Importin-9; FLJ10402; RanBP9; IMP9; KIAA1192; RANBP9
Immunogen	A synthesized peptide derived from human Importin 9 / RANBP9

Additional Information

Gene ID	55705
Other Names	Importin-9, Imp9, Ran-binding protein 9, RanBP9, IPO9 {ECO:0000303|PubMed:30855230, ECO:0000312|HGNC:HGNC:19425}

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, PubMed:30855230, PubMed: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

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