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Anti-IPO9 / Importin 9 Antibody (aa840-1041)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18399

Product Information

Application	WB, IHC-P
Primary Accession	Q96P70
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	115963
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	55705
Alias Symbol	IPO9
Other Names	IPO9, Importin-9, Importin 9, KIAA1192, Ran-binding protein 9, Imp9
Target/Specificity	Human IPO9 / Importin 9
Reconstitution & Storage	Purified
Precautions	Anti-IPO9 / Importin 9 Antibody (aa840-1041) is for research use only and not for use in diagnostic or therapeutic procedures.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.