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Anti-IPO9 / Importin 9 Antibody (aa740-1041)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17396

Specification

Anti-IPO9 / Importin 9 Antibody (aa740-1041) - Product Information

Application	**WB, IHC-P**
Primary Accession	Q96P70
Predicted	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**115963**

Anti-IPO9 / Importin 9 Antibody (aa740-1041) - 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
PBS, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions
Anti-IPO9 / Importin 9 Antibody (aa740-1041) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-IPO9 / Importin 9 Antibody (aa740-1041) - 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:34711951, PubMed:30855230). 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

Anti-IPO9 / Importin 9 Antibody (aa740-1041) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IPO9 / Importin 9 Antibody (aa740-1041) - Images