

KD-Validated Anti-Importin 9 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1546**Specification****KD-Validated Anti-Importin 9 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q96P70
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 116 kDa , observed , 140 kDa
Gene Name	KDa
Aliases	IPO9
	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

KD-Validated Anti-Importin 9 Rabbit Monoclonal Antibody - 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}	

KD-Validated Anti-Importin 9 Rabbit Monoclonal 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, 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).

target="_blank">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

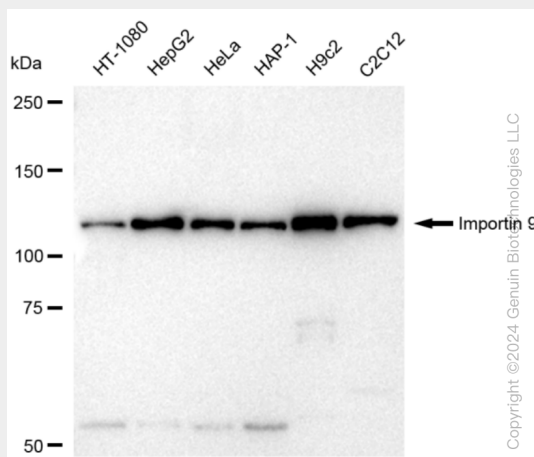
Cytoplasm. Nucleus

KD-Validated Anti-Importin 9 Rabbit Monoclonal Antibody - Protocols

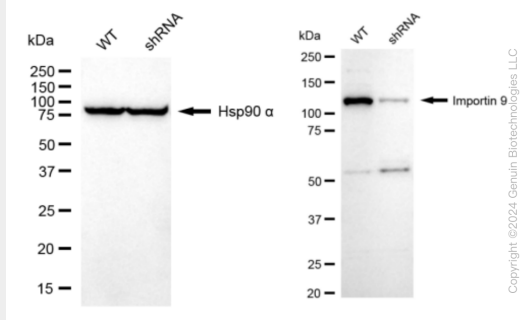
Provided below are standard protocols that you may find useful for product applications.

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

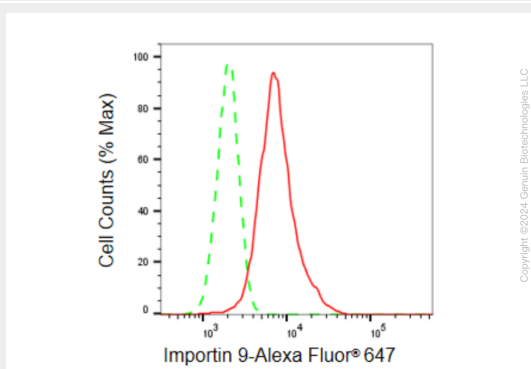
KD-Validated Anti-Importin 9 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Importin 9 antibody (Cat#AGI1546). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Importin 9 antibody (Cat#AGI1546, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Importin 9 antibody (Cat#AGI1546). Importin 9 expression in wild type (WT) and Importin 9 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Importin 9 antibody (Cat#AGI1546, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Importin 9 expression in HepG2 cells using Importin 9 antibody (Cat#AGI1546, 1:2,000). Green, isotype control; red, Importin 9.