

Rabbit IPO5 Polyclonal Antibody | anti-IPO5 antibody

IPO5 Antibody

CATALOG # AAA326499	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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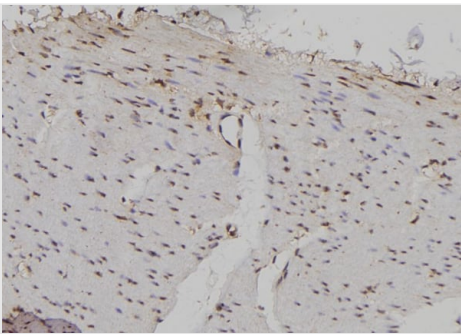
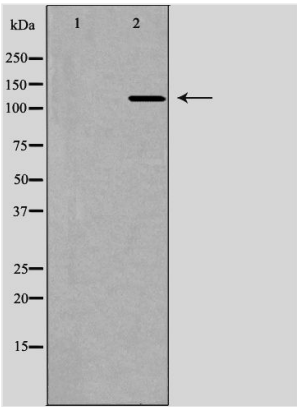
PRODUCT SYNONYMS

IPO5; Polyclonal Antibody; IPO5 Antibody; DKFZp686O1576; FLJ43041; IMB3; Imp5; Importin 5; Importin beta 3 subunit; Importin subunit beta 3; Importin subunit beta-3; Importin-5; IPO 5; IPO5_HUMAN; Karyopherin beta 3; Karyopherin beta-3; KPNB3; MGC2068; Pse1; Ran binding protein 5; Ran GTP binding protein 5; Ran-binding protein 5; RanBP 5; RanBP5; anti-IPO5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	IPO5 antibody detects endogenous levels of total IPO5
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1115
Applicable Applications for anti-IPO5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human IPO5
Subcellular Location	Cytoplasm. Nucleus. Nucleus > Nucleolus. Nucleus; Nuclear Rim. Found particularly in the nuclear rim and nucleolus.
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326499 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using IPO5 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-IPO5 antibody

Description: Nucleocytoplasmic transport, a signal-and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. The import of proteins containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at the cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates and the small GTP binding protein Ran, the complex moves into the nuclear pore complex and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its passenger protein and importin beta remains at the pore. Interactions between importin beta and the FG repeats of nucleoporins are essential in translocation through the pore complex. The protein encoded by this gene is a member of the importin beta family.

Function: Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. 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. 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. 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 (By similarity). Mediates the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. Binds to CPEB3 and mediates its nuclear import following neuronal stimulation (By similarity). In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev.

Subunit Structure: Binds RPL23A, RPS7 and RPL5 (PubMed:9687515). Interacts with H2A, H2B, H3 and H4 histones (By similarity). Interacts with CPEB3; this mediates CPEB3 nuclear import following neuronal stimulation which enhances the interaction in a RAN-regulated manner (PubMed:22730302). Binds to HIV-1 Rev (PubMed:16704975).

Similarity: Belongs to the importin beta family. Importin beta-3 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24797086
NCBI GeneID	3843
NCBI Accession #	NP_002262.3
NCBI GenBank Nucleotide #	NM_002271.4
UniProt Accession #	O00410; O15257; Q5T578; Q86XC7; B4DZA0
Molecular Weight	Observed: 123 kDa Predicted: 124 kDa
NCBI Official Full Name	importin-5

NCBI Official Synonym Full Names	importin 5
NCBI Official Symbol	IPO5
NCBI Official Synonym Symbols	IMB3; Pse1; imp5; KPNB3; RANBP5
NCBI Protein Information	importin-5
UniProt Protein Name	Importin-5
UniProt Gene Name	IPO5
UniProt Synonym Gene Names	KPNB3; RANBP5; Imp5; RanBP5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ipo5-antibody-immunohistochemistry-western-blot-elisa/326499>