

Rabbit Importin 7 Polyclonal Antibody | anti-IPO7 antibody

Importin 7 Antibody

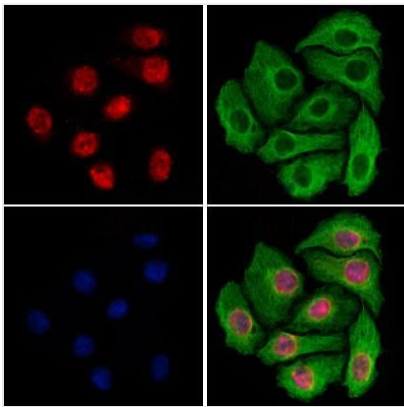
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31266	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(88%)	ELISA

PRODUCT SYNONYMS

Importin 7; Polyclonal Antibody; Importin 7 Antibody; FLJ14581; Imp 7; Imp7; Importin-7; Importin7; IPO 7; IPO7; IPO7_HUMAN; MGC138673; Ran binding protein 7; Ran-binding protein 7; RANBP 7; RanBP7; anti-IPO7 antibody

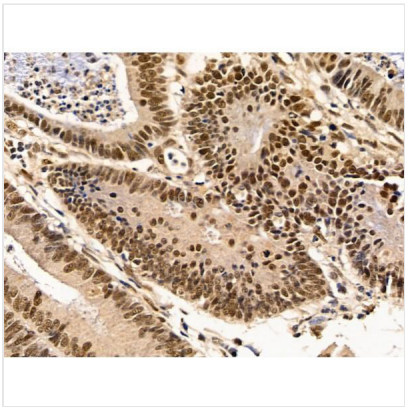
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Importin 7 Antibody detects endogenous levels of total Importin 7.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1038
Applicable Applications for anti-IPO7 antibody	ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Importin 7, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



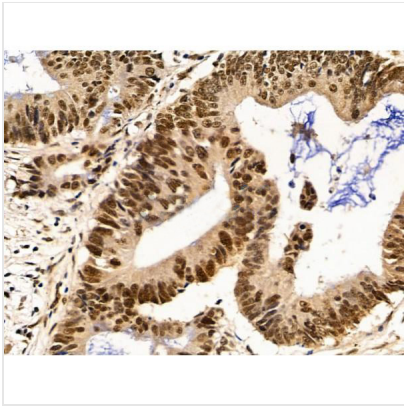
IF (Immunofluorescence)

AAA31266 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31266 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry-Paraffin)

AAA31266 at 1/100 staining Human colorectal cancer and adjacent normal tissues 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



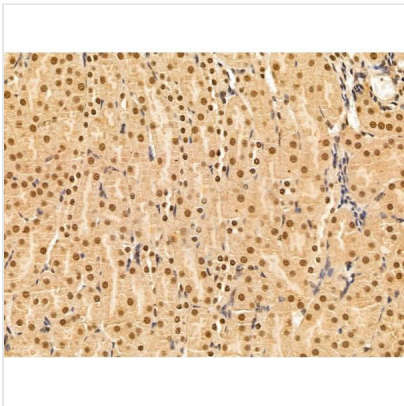
IHC (Immunohistochemistry-Paraffin)

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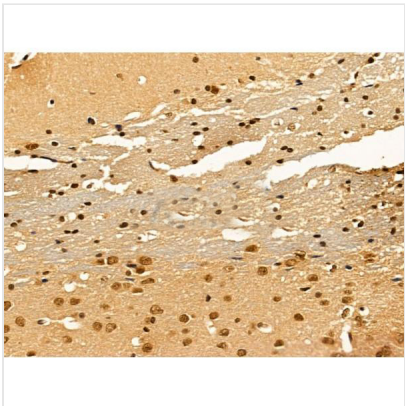
IHC (Immunohistochemistry-Paraffin)

AAA31266 at 1/100 staining Human colorectal cancer 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31266 at 1/100 staining Mouse kidney 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31266 at 1/100 staining Mouse brain 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-IPO7 antibody	Function: Functions in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously, is thought to serve itself as receptor for nuclear localization signals (NLS) and to promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to 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. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with KPNB1 mediates the nuclear import of H1 histone and the Ran-binding site of IPO7 is not required but synergizes with that of KPNB1 in importin/substrate complex dissociation. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones.(Microbial infection) Mediates the nuclear import of HIV-1 reverse transcription complex (RTC) integrase. Binds and mediates the nuclear import of HIV-1 Rev. Subcellular Location: Cytoplasm. Nucleus. Subunit Structure: Interacts with H2A, H2B, H3 and H4 histones (By similarity). Forms a heterodimer with KPNB1. Interacts with KPNB1, SNUPN, XPO1, RPL23A, RPS7, and RPL5. Binds directly to nuclear pore complexes (By similarity). Interacts with H2A, H2B, H3 and H4 histones. Interacts with SMAD4 and NUP93; translocates SMAD4 to the nucleus through the NPC upon BMP7 stimulation resulting in activation of SMAD4 signaling (PubMed:26878725).(Microbial infection) Interacts with HIV-1 reverse transcription complex integrase and rev. Similarity: Belongs to the importin beta family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5453998
NCBI GeneID	10527
NCBI Accession #	NP_006382.1
NCBI GenBank Nucleotide #	NP_006382.1
UniProt Accession #	O95373
Molecular Weight	Observed Molecular Weight: (Observed)119kD. Predicted Molecular Weight: (Calculated)120kDa.
NCBI Official Full Name	importin-7
NCBI Official Synonym Full Names	importin 7
NCBI Official Symbol	IPO7
NCBI Official Synonym Symbols	Imp7; RANBP7
NCBI Protein Information	importin-7
UniProt Protein Name	Importin-7
UniProt Gene Name	IPO7
UniProt Synonym Gene Names	RANBP7; Imp7; RanBP7
UniProt Entry Name	IPO7_HUMAN

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.