

Rabbit Exportin-5 Polyclonal Antibody | anti-XPO5 antibody

Exportin-5 Antibody

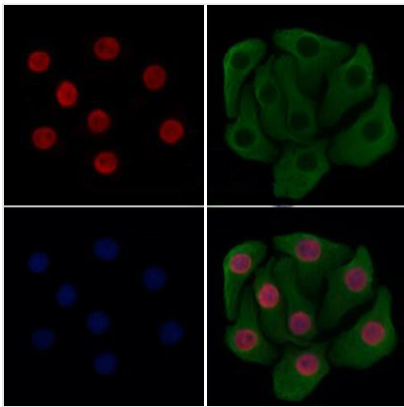
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31213	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Dog(100%), Chicken(100%)	ELISA

PRODUCT SYNONYMS

Exportin-5; Polyclonal Antibody; Exportin-5 Antibody; Exp 5; Exp5; Exportin 5; Exportin5; FLJ14239; FLJ32057; FLJ45606; KIAA1291; OTTHUMP00000016472; Ran binding protein 21; Ran-binding protein 21; Ranbp 21; Ranbp21; Xpo 5; xpo5; XPO5_HUMAN; anti-XPO5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Exportin-5 Antibody detects endogenous levels of total Exportin-5.
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	1204
Applicable Applications for anti-XPO5 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Exportin-5, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



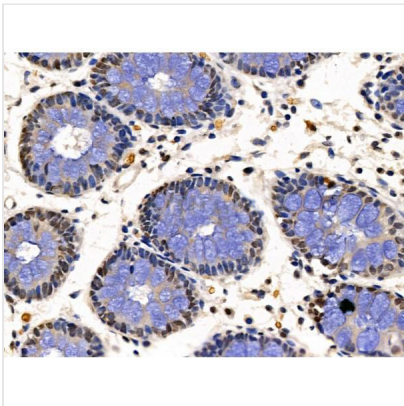
IF (Immunofluorescence)

AAA31213 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(AAA31213 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).



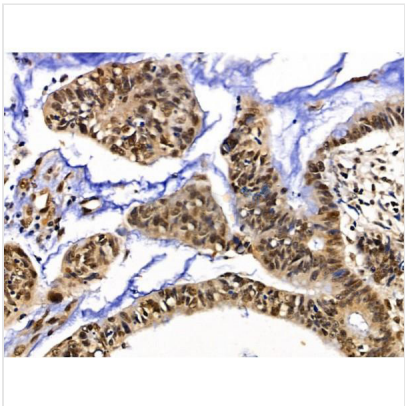
IHC (Immunohistochemistry-Paraffin)

AAA31213 at 1/100 staining Rat testis 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.



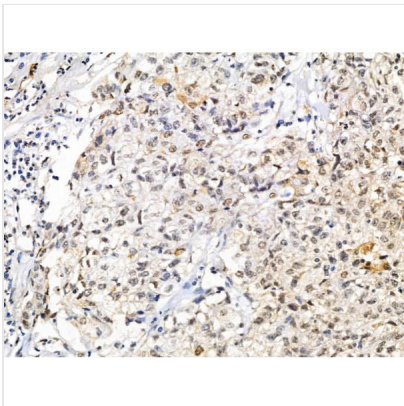
IHC (Immunohistochemistry-Paraffin)

AAA31213 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.



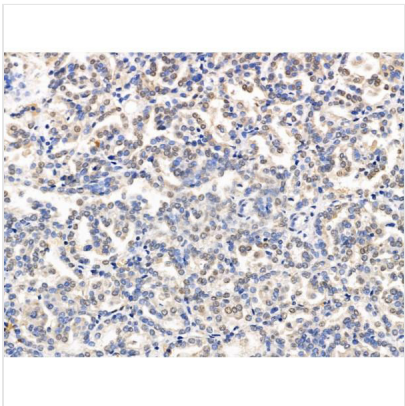
IHC (Immunohistochemistry-Paraffin)

AAA31213 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)

AAA31213 at 1/100 staining Human pancreatic 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)

AAA31213 at 1/100 staining Human kidney 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.

ADDITIONAL INFORMATION

Related Product Information for anti-XPO5 antibody	Function: Mediates the nuclear export of proteins bearing a double-stranded RNA binding domain (dsRBD) and double-stranded RNAs (cargos). XPO5 in the nucleus binds cooperatively to the RNA and to the GTPase Ran in its active GTP-bound form. Proteins containing dsRBDs can associate with this trimeric complex through the RNA. Docking of this complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause disassembly of the complex and release of the cargo from the export receptor. XPO5 then returns to the nuclear compartment by diffusion through the nuclear pore complex, to mediate another round of transport. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Overexpression may in some circumstances enhance RNA-mediated gene silencing (RNAi). Mediates nuclear export of isoform 5 of ADAR/ADAR1 in a RanGTP-dependent manner.Mediates the nuclear export of micro-RNA precursors, which form short hairpins (PubMed:14681208, PubMed:14631048, PubMed:15613540). Also mediates the nuclear export of synthetic short hairpin RNAs used for RNA interference. In some circumstances can also mediate the nuclear export of deacylated and aminoacylated tRNAs. Specifically recognizes dsRNAs that lack a 5'-overhang in a sequence-independent manner, have only a short 3'-overhang, and that have a double-stranded length of at least 15 base-pairs (PubMed:19965479). Binding is dependent on Ran-GTP (PubMed:19965479).(Microbial infection) Mediates the nuclear export of adenovirus VA1 dsRNA. Subcellular Location: Nucleus. Cytoplasm. Note: Shuttles between the nucleus and the cytoplasm. Tissue Specificity: Expressed in heart, brain, placenta, lung, skeletal muscle, kidney and pancreas. Subunit Structure: Component of a nuclear export receptor complex composed of XPO5, RAN, dsRNA-binding proteins and dsRNA. Found in a nuclear export complex with XPO5, RAN, EEF1A1, and aminoacylated tRNA. Found in a nuclear export complex with XPO5, RAN, ILF3 and dsRNA. Found in a nuclear export complex with XPO5, RAN and pre-miRNA (PubMed:19965479). Found in a nuclear export complex with XPO5, RAN, ILF3 and minihelix VA1 dsRNA. Found in a nuclear export complex with XPO5, RAN, ILF3, ZNF346 and dsRNA. Interacts with EEF1A1, ILF3, NUP153, NUP214 and ZNF346. Interacts with RAN and cargo proteins in a GTP-dependent manner. Interacts with isoform 5 of ADAR/ADAR1 (via DRBM domains). Interacts with SMAD4; mediates nuclear export of SMAD4 (PubMed:26878725). Interacts with RAN (GTP-bound form) (PubMed:19965479). Similarity: Belongs to the exportin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22748937
NCBI GeneID	57510
NCBI Accession #	NP_065801.1
NCBI GenBank Nucleotide #	NP_065801.1
UniProt Accession #	Q9HAV4
Molecular Weight	Observed Molecular Weight: (Observed)136kD. Predicted Molecular Weight: (Calculated)136kDa.
NCBI Official Full Name	exportin-5
NCBI Official Synonym Full Names	exportin 5
NCBI Official Symbol	XPO5
NCBI Official Synonym Symbols	exp5
NCBI Protein Information	exportin-5
UniProt Protein Name	Exportin-5
UniProt Gene Name	XPO5
UniProt Synonym Gene Names	KIAA1291; RANBP21; Exp5

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/exportin-5-antibody-elisa/31213>