XPO5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	XPO5, Polyclonal Antibody
Full Product Name	XPO5
Product Gene Name	anti-XPO5 antibody
Product Synonym Names	exp5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	136kDa
OMIM	607845
3D Structure	ModBase 3D Structure for Q9HAV4
Immunogen	Recombinant protein of human XPO5
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-XPO5 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-XPO5 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:100 IP: 1:50-1:200
Related Product Information for anti-XPO5 antibody	This gene encodes a member of the karyopherin family that is required for the transport of small RNAs and double-stranded RNA-binding proteins from the nucleus to the cytoplasm. The encoded protein translocates cargo through the nuclear pore complex in a RanGTP-dependent process.
Other Notes	Small volumes of anti-XPO5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for XPO5 purchase	MBS8536094 is an antibody targeting XPO5. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XPO5. It may not necessarily be applicable to this product.

NCBI GI #	22748937
NCBI GeneID	57510
NCBI Accession #	NP_065801.1

UniProt Primary Accession #	Q9HAV4
UniProt Secondary Accession #	Q5JTE6; Q96G48; Q96HN3; Q9BWM6; Q9BZV5; Q9H9M4; Q9NT89; Q9NW39; Q9ULC9
UniProt Related Accession #	Q9HAV4
GenBank Nucleotide #	NM_020750.2
NCBI Official Full Name	exportin-5
NCBI Official Synonym Full Names	exportin 5
NCBI Official Symbol	XPO5
NCBI Official Synonym Symbols	exp5
UniProt Protein Name	Exportin-5
UniProt Synonym Protein Names	Ran-binding protein 21
Protein Family	Exportin
UniProt Gene Name	XPO5
UniProt Synonym Gene Names	KIAA1291; RANBP21; Exp5
NCBI Protein Information	exportin-5
UniProt Comments for XPO5	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).
Research Articles on XPO5	**1.** Aberrant XPO5 expression is important for the maturation of miRNAs and the malignant behavior of melanoma cells. High abundance of XPO5 in melanoma leads to enhanced survival, proliferation and metastasis.
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