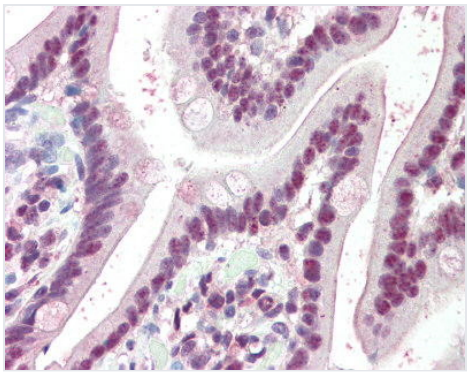
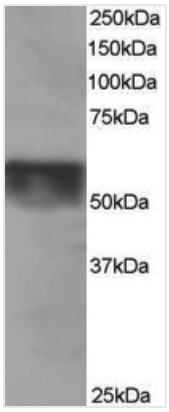
KPNA4 Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	KPNA4, Polyclonal Antibody
Full Product Name	KPNA4, CT (Importin alpha-4 Subunit, Karyopherin alpha-4 Subunit, Importin alpha Q1, Importin alpha-4, QIP1)
Product Gene Name	anti-KPNA4 antibody
Product Synonym Names	Anti -KPNA4, CT (Importin alpha-4 Subunit, Karyopherin alpha-4 Subunit, Importin alpha Q1, Importin alpha-4, QIP1)
Clonality	Polyclonal
Host	Goat
Species Reactivity	Human
Form/Format	Supplied as a liquid in TBS, pH 7.3, 0.5% BSA, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human KPNA4. Species sequence homology: Canine, mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	57,887 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (160212783..160283376, complement). Location: 3q25.33
OMIM	602970
3D Structure	ModBase 3D Structure for O00629
Immunogen	Synthetic peptide corresponding to C-NSSANVPTEGFQF from the C-terminal of human KPNA4.
Product Categories/Family for anti-KPNA4 antibody	Antibodies; Abs to Transport Proteins
Applications Tested/Suitable for anti-KPNA4 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-KPNA4 antibody	Suitable for use in ELISA, Western Blot and Immunohistochemistry. Dilution: Western Blot: 0.2-1ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 5ug/ml
Related Product Information for anti-KPNA4 antibody	The nuclear import of karyophilic proteins is directed by short aa sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by this gene shares the sequence similarity with Xenopus importin-alpha and Saccharomyces cerevisiae Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen.
Other Notes	Small volumes of anti-KPNA4 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 KPNA4 purchase	MBS6010880 is an antibody targeting KPNA4. Also known as KPNA4, CT (Importin alpha-4 Subunit, Karyopherin alpha-4 Subunit, Importin alpha Q1, Importin alpha-4, QIP1). Reactive in Human. Host: Goat.



Immunohistochemistry (IHC) of anti-KPNA4 antibody
Human Small Intestine (formalin-fixed, paraffin-embedded) stained with KPNA4 antibody at 5ug/ml followed by biotinylated goat IgG secondary antibody alkaline phosphatase-streptavidin and chromogen.



Western Blot (WB) of anti-KPNA4 antibody
Antibody staining (0.5ug/ml) of Human Testis lysate (RIPA buffer, 35ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KPNA4. It may not necessarily be applicable to this product.

NCBI GI #	16876958
NCBI GeneID	3840
NCBI Accession #	AAH16754.1
UniProt Primary Accession #	O00629
UniProt Secondary Accession #	O00190; A8K4S6; D3DNM2
UniProt Related Accession #	O00629
NCBI Official Full Name	KPNA4 protein
NCBI Official Synonym Full Names	karyopherin alpha 4 (importin alpha 3)
NCBI Official Symbol	KPNA4
NCBI Official Synonym Symbols	QIP1; SRP3; IPOA3
UniProt Protein Name	Importin subunit alpha-3
UniProt Synonym Protein Names	Importin alpha Q1; Qip1; Karyopherin subunit alpha-4
UniProt Gene Name	KPNA4
UniProt Synonym Gene Names	QIP1; Qip1
UniProt Entry Name	IMA3_HUMAN
NCBI Protein Information	importin subunit alpha-3; importin alpha Q1; importin subunit alpha-4; karyopherin subunit alpha-4
NCBI Summary for KPNA4	The nuclear import of karyophilic proteins is directed by short amino acid sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by this gene shares the sequence similarity with Xenopus importin-alpha and Saccharomyces cerevisiae Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen. [provided by RefSeq, Jul 2008]

UniProt Comments for KPNA4	KPNA4: an alpha importin protein that functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats 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 importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. 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. Forms a complex with importin beta-1 subunit. Protein type: Karyopherin; Nuclear import; Adaptor/scaffold; Chaperone Chromosomal Location of Human Ortholog: 3q25.33 Cellular Component: nucleoplasm; cytosol Molecular Function: protein binding; protein transporter activity Biological Process: response to hydrogen peroxide; cytokine and chemokine mediated signaling pathway; NLS-bearing substrate import into nucleus
Research Articles on KPNA4	**1.** Importin alpha3/Qip1 is involved in multiplication of mutant influenza virus with alanine mutation at amino acid 9 independently of nuclear transport function.
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