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XPO5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16050B

Specification

XPO5 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9HAV4
Other Accession	NP_065801.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**136311**
Antigen Region	**1123-1152**

XPO5 Antibody (C-term) - Additional Information

Gene ID 57510

Other Names
Exportin-5, Exp5, Ran-binding protein 21, XPO5, KIAA1291, RANBP21

Target/Specificity
This XPO5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1123-1152 amino acids from the C-terminal region of human XPO5.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
XPO5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

XPO5 Antibody (C-term) - Protein Information

Name XPO5

Synonyms KIAA1291, RANBP21

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. (Microbial infection) Mediates the nuclear export of adenovirus VA1 dsRNA.

Cellular Location
Nucleus. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm

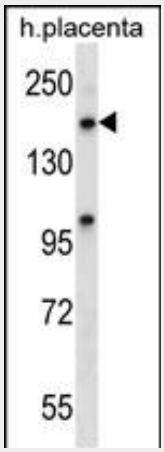
Tissue Location
Expressed in heart, brain, placenta, lung, skeletal muscle, kidney and pancreas.

XPO5 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

XPO5 Antibody (C-term) - Images



XPO5 Antibody (C-term) (Cat. #AP16050b) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the XPO5 antibody detected the XPO5 protein (arrow).

XPO5 Antibody (C-term) - Background

Exportin-5 belongs to a large family of karyopherins (see MIM 602738) that mediate the transport of proteins and other cargo between the nuclear and cytoplasmic compartments.[supplied by OMIM].

XPO5 Antibody (C-term) - References

Melo, S.A., et al. Cancer Cell 18(4):303-315(2010)
Kim, J.S., et al. Mol. Carcinog. 49(10):913-921(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Wilker, E.H., et al. Environ. Health Perspect. 118(7):943-948(2010)
Boni, V., et al. Pharmacogenomics J. (2010) In press :