

RANBP16/Exp7 Rabbit pAb

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Catalog # AP57903

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9UIA9
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Zebrafish, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123907
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RANBP16/Exp7
Epitope Specificity	991-1087/1087
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Nucleus; nuclear pore complex. Note: Shuttles between the nucleus and the cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The transport of protein and large RNAs through the nuclear pore complexes (NPC) is an energy-dependent and regulated process. The import of proteins with a nuclear localization signal (NLS) is accomplished by recognition of one or more clusters of basic amino acids by the importin-alpha/beta complex; see MIM 600685 and MIM 602738. The small GTPase RAN (MIM 601179) plays a key role in NLS-dependent protein import. RAN-binding protein-16 is a member of the importin-beta superfamily of nuclear transport receptors.[supplied by OMIM, Jul 2002]

Additional Information

Gene ID	23039
Other Names	Exportin-7, Exp7, Ran-binding protein 16, XPO7, KIAA0745, RANBP16
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

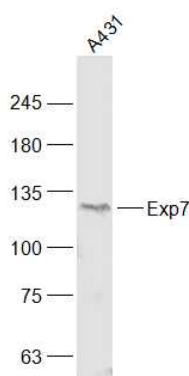
Protein Information

Name	XPO7
Synonyms	KIAA0745, RANBP16
Function	Mediates the nuclear export of proteins (cargos) with broad substrate specificity. In the nucleus binds cooperatively to its cargo and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the cargo from the export receptor. XPO7 then return to the nuclear compartment and 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.
Cellular Location	Cytoplasm. Nucleus Note=Shuttles between the nucleus and the cytoplasm
Tissue Location	Strong expression in testis, thyroid and bone marrow, low expression in lung, liver and small intestine, no expression in thymus, and remaining tissues studied have moderate expression. Expressed in red blood cells; overexpressed in red blood cells (cytoplasm) of patients with hereditary non-spherocytic hemolytic anemia of unknown etiology.

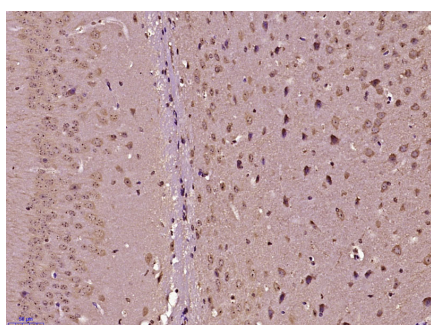
Background

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Images



Sample:
A431(Human) Cell Lysate at 30 ug
Primary: Anti-Exp7 (AP57903) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 124 kD
Observed band size: 124 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RANBP16/Exp7) Polyclonal Antibody, Unconjugated (AP57903) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.