

KPNA7 Antibody

Catalog # ASC11211

Product Information

Application	WB, E, IHC-P
Primary Accession	A9QM74
Other Accession	NP_001139187 , 224589129
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	56938
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	KPNA7 antibody can be used for detection of KPNA7 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL.

Additional Information

Gene ID	402569
Other Names	Importin subunit alpha-8, Karyopherin subunit alpha-7, KPNA7
Target/Specificity	KPNA7; KPNA7 antibody is human specific. KPNA7 antibody is predicted to not cross-react with other Importin alpha family members.
Reconstitution & Storage	KPNA7 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	KPNA7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KPNA7
Function	Functions in nuclear protein import.
Cellular Location	Nucleus

Background

KPNA7 Antibody: Karyopherin, a cytosolic and heterodimeric protein complex consisting of alpha and beta

subunits, is responsible for targeting proteins with nuclear localization signals to the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. The alpha subunit and imported substrate enter the nucleus and accumulate in the nucleoplasm, while the beta subunit accumulates at the NPC. KPNA7 is most closely related to KPNA2, but unlike KPNA2, KPNA7 primarily localizes to the nucleus. It has been suggested that KPNA7 may play a role in the transport of essential nuclear proteins required for early embryogenesis.

References

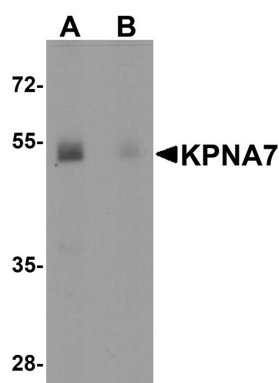
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Gilchrist D and Rexach M. Molecular basis for the rapid dissociation of nuclear localization signals from karyopherin alpha in the nucleoplasm. J. Biol. Chem. 2003; 278: 51937-49.

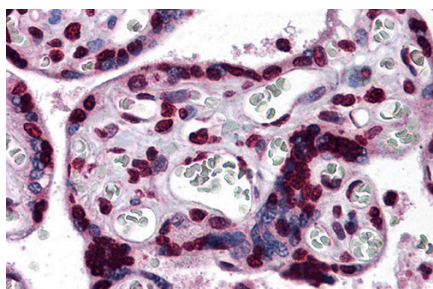
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Kelley JB, Talley AM, Spencer A, et al. Karyopherin a7 (KPNA7), a divergent member of the importin a family of nuclear import receptors. BMC Cell Biol. 2010; 11:63.

Images



Western blot analysis of KPNA7 in human spleen with KPNA7 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of KPNA7 in human placenta tissue with KPNA7 antibody at 5 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.