

KPNA7 Antibody
Catalog # ASC11211

Specification

KPNA7 Antibody - Product Information

Application	WB, IHC
Primary Accession	A9QM74
Other Accession	NP_001139187 , 224589129
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	KPNA7 antibody can be used for detection of KPNA7 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

KPNA7 Antibody - Additional Information

Gene ID 402569

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.

KPNA7 Antibody - Protein Information

Name KPNA7

Function

Functions in nuclear protein import.

Cellular Location

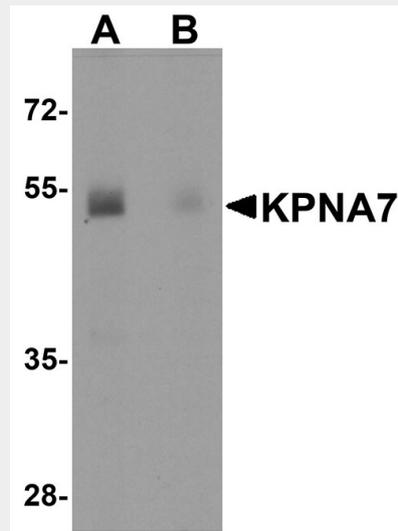
Nucleus

KPNA7 Antibody - Protocols

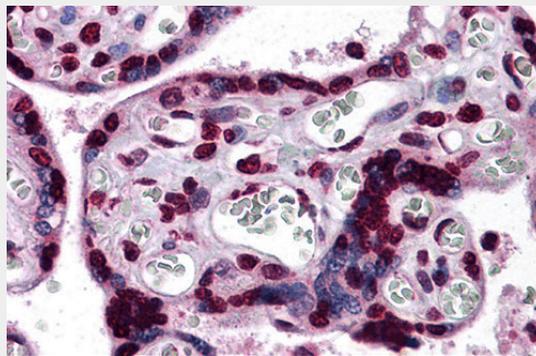
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KPNA7 Antibody - Images



Western blot analysis of KPNA7 in human spleen with KPNA7 antibody at 1 $\mu\text{g/ml}$ in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of KPNA7 in human placenta tissue with KPNA7 antibody at 5 $\mu\text{g/mL}$.

KPNA7 Antibody - 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.

KPNA7 Antibody - References

Moroianu J. Molecular mechanisms of nuclear protein transport. Crit. Rev. Eukaryot. Gene. Expr. 1997; 7:61-72.

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.

Tejomurtula J, Lee KB, Tripurani SK, et al. Role of importin alpha8, a new member of the importin alpha family of nuclear transport proteins, in early embryonic development in cattle. Biol. Reprod. 2009; 81:333-42.

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.