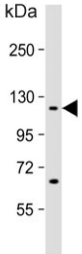
IPO7 Antibody / Importin 7 (F54822)

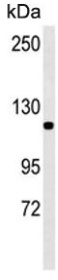
Catalog No.	Formulation	Size
F54822-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54822-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

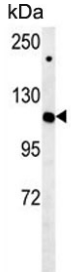
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	O95373
Localization	Cytoplasmic, nuclear
Applications	Immunohistochemistry (FFPE): 1:50-1:100 Western blot: 1:500-1:1000
Limitations	This IPO7 antibody is available for research use only.



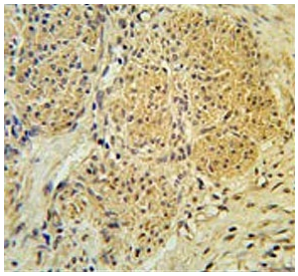
Western blot testing of human HeLa cell lysate with IPO7 antibody. Predicted molecular weight ~120 kDa.



Western blot testing of human NCI-H460 cell lysate with IPO7 antibody. Predicted molecular weight ~120 kDa.



Western blot testing of mouse NIH 3T3 cell lysate with IPO7 antibody. Predicted molecular weight ~120 kDa.



IHC testing of FFPE human cervix tissue with IPO7 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

The importin-alpha/beta complex and the GTPase Ran mediate nuclear import of proteins with a classical nuclear localization signal. The protein encoded by this gene is a member of a class of approximately 20 potential Ran targets that share a sequence motif related to the Ran-binding site of importin-beta. Similar to importin-beta, this protein prevents the activation of Ran's GTPase by RanGAP1 and inhibits nucleotide exchange on RanGTP, and also binds directly to nuclear pore complexes where it competes for binding sites with importin-beta and transportin. This protein has a Ran-dependent transport cycle and it can cross the nuclear envelope rapidly and in both directions. At least four importin beta-like transport receptors, namely importin beta itself, transportin, RanBP5 and RanBP7, directly bind and import ribosomal proteins.

Application Notes

The stated application concentrations are suggested starting points. Titration of the IPO7 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 142-169 from the human protein was used as the immunogen for the IPO7 antibody.

Storage

Aliquot the IPO7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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