


Product datasheet

Anti-Importin 7 antibody ab99273

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Overview

<b>Product name</b>	Anti-Importin 7 antibody
<b>Description</b>	Rabbit polyclonal to Importin 7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Chinese hamster, Elephant 
<b>Immunogen</b>	Synthetic peptide within Human Importin 7 aa 200-250. The exact sequence is proprietary. Database link: <a href="#">NP_006382.1</a>
<b>Positive control</b>	HeLa whole cell lysate, 293T whole cell lysate and Mouse NIH3T3 whole cell lysate.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab99273 was affinity purified using an epitope specific to Importin 7 immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab99273** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 120 kDa.
IP		Use at 5-15 µg/mg of lysate.
IHC-P		1/200 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Functions in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously, is thought to serve itself as receptor for nuclear localization signals (NLS) and to promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with KPNB1 mediates the nuclear import of H1 histone and the Ran-binding site of IPO7 is not required but synergizes with that of KPNB1 in importin/substrate complex dissociation. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. In vitro, mediates the nuclear import of HIV-1 reverse transcription complex (RTC) integrase. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev.

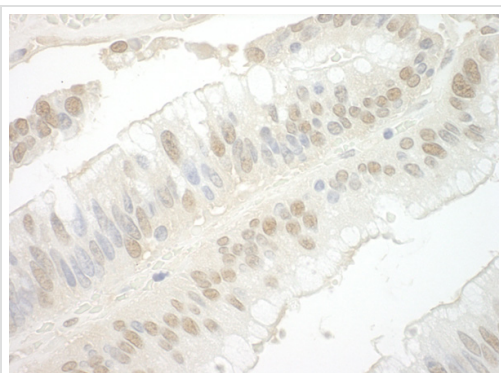
### Sequence similarities

Belongs to the importin beta family.  
Contains 1 importin N-terminal domain.

### Cellular localization

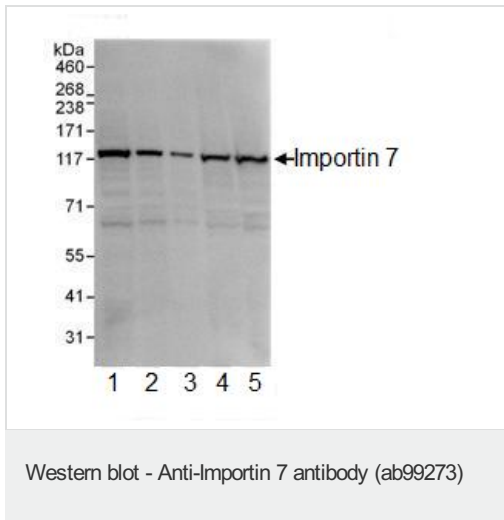
Cytoplasm. Nucleus.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon carcinoma tissue labelling Importin 7 with ab99273 at 1/1000 (0.2µg/mg).  
Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Importin 7 antibody (ab99273)



**All lanes :** Anti-Importin 7 antibody (ab99273)  
at 0.04 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg

**Lane 2 :** HeLa whole cell lysate at 15 µg

**Lane 3 :** HeLa whole cell lysate at 5 µg

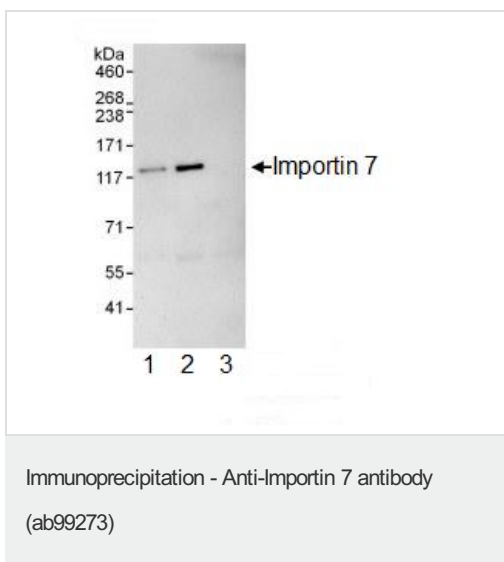
**Lane 4 :** 293T whole cell lysate at 50 µg

**Lane 5 :** Mouse NIH3T3 whole cell lysate at  
50 µg

Developed using the ECL technique.

**Predicted band size:** 120 kDa

**Exposure time:** 3 seconds



ab99273 at 0.1 µg/ml detecting Importin 7 in  
HeLa whole cell lysate by western blot analysis  
following immunoprecipitation. Detection  
utilised ECL with a 1 second exposure.

For immunoprecipitation, ab99273 was used  
at at 10 µg/mg lysate; 1 mg of lysate was used  
for IP and 20% of IP was loaded.

Lane 1; IP using [ab99272](#) which recognizes  
an upstream epitope of Importin 7.

Lane 2; IP using ab99273.

Lane 3; IP using control IgG.

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