


## Product datasheet

# Anti-Importin 13 antibody ab101374

[1 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-Importin 13 antibody
<b>Description</b>	Rabbit polyclonal to Importin 13
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow 
<b>Immunogen</b>	Recombinant fragment, corresponding to a region within amino acids 143-280 of Human Importin 13 (AAH08194)
<b>Positive control</b>	A549, HeLa, HepG2 and HCT116 cells. MCF7 xenograft.

### 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: 0.01% Thimerosal (merthiolate) Constituents: 20% Glycerol, 1% BSA, 1X PBS, pH 7
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab101374** 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		1/500 - 1/3000. Predicted molecular weight: 108 kDa.
IHC-P		1/100 - 1/500. Suggested antigen retrieval using heat mediated 10mM Citrate buffer or Tris-EDTA buffer pH 8.

## Target

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### Function

Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the 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 (By similarity). Mediates the nuclear import of UBC9, the RBM8A/MAGOH complex, PAX6 and probably other members of the paired homeobox family. Also mediates nuclear export of eIF-1A, and the cytoplasmic release of eIF-1A is triggered by the loading of import substrates onto IPO13.

### Tissue specificity

Expressed in fetal brain, heart, intestine and kidney.

### Sequence similarities

Belongs to the importin beta family.  
Contains 14 HEAT repeats.  
Contains 1 importin N-terminal domain.

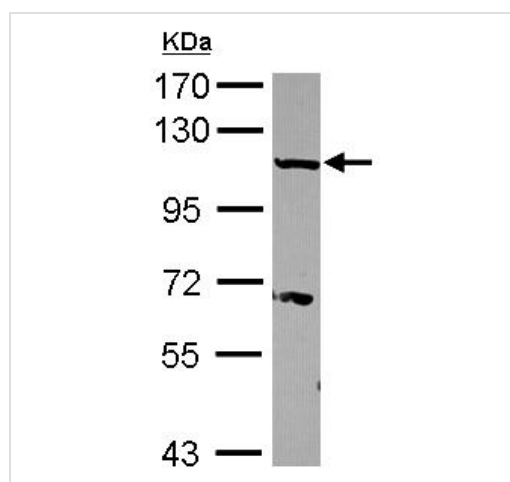
### Cellular localization

Cytoplasm. Nucleus.

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## Images

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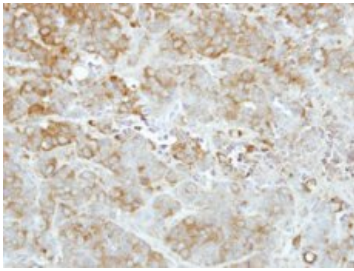
Anti-Importin 13 antibody (ab101374) at  
1/1000 dilution + A549 whole cell lysate at 30  
 $\mu$ g

**Predicted band size:** 108 kDa

7.5% SDS PAGE

Western blot - Anti-Importin 13 antibody (ab101374)

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Immunohistochemical analysis of paraffin-embedded MCF7 xenograft, using ab101374 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Importin 13 antibody (ab101374)

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