

Product datasheet

Anti-Importin 13 antibody ab101374

1 References 2 Images

Overview

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 20% Glycerol, 1% BSA, 2.68% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	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.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500. Suggested antigen retrieval using heat mediated 10mM Citrate buffer or Tris-EDTA buffer pH 8.

Target

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/MAGO8 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.

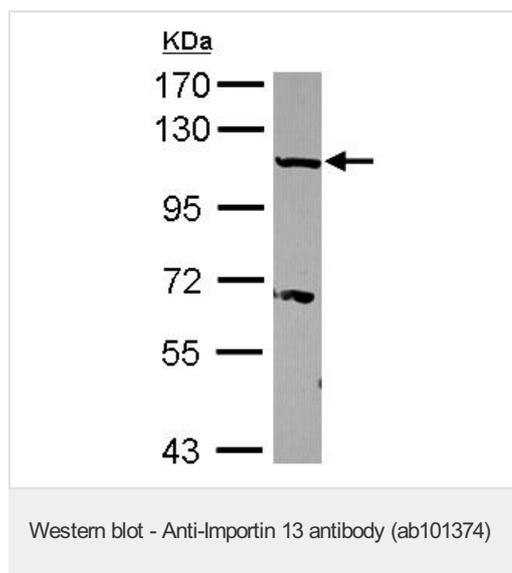
Sequence similarities

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

Cellular localization

Cytoplasm. Nucleus.

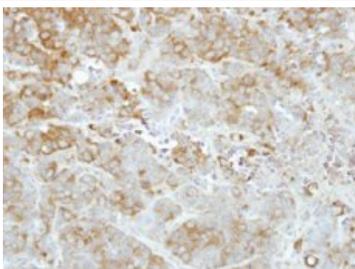
Images



Anti-Importin 13 antibody (ab101374) at 1/1000 dilution + A549 whole cell lysate at 30 µg

Predicted band size: 108 kDa

7.5% SDS PAGE



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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