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Datasheet for ABIN7267857

anti-Importin 4 antibody (AA 728-1081)

4 Images

Overview

Quantity:	100 µL
Target:	Importin 4 (IPO4)
Binding Specificity:	AA 728-1081
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Importin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	IPO4 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 728-1081 of human IPO4 (NP_078934.3).
Sequence:	LHKACQSCPS EPNTAALQAA LARVVPSYMQ AVNRERERQV VMAVLEALTG VLRSCGTLTL KPPGRLAELC GVLKAVLQRK TACQDTDEEE EEEDDDQAEY DAMLLEHAGE AIPALAAAAG GDSFAPFFAG FLPLLVCKTK QGCTVAEKSF AVGTLAETIQ GLGAASAQFV SRRLLPVLLST AQEADPEVRS NAIFGMGVLA EHGHPAQEH FPKLLGLLFP LLARERHDRV RDNICGALAR LLMASPTRKP EPQVLAALLH ALPLKEDLEE WVTIGRLFSF LYQSSPDQVI DVAPELLRIC SLILADNKIP PDTKAALLL LTFLAKQHTD SFQAALGSLP VDKAQELQAV LGLS
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

Product Details

Characteristics: Polyclonal Antibodies

Purification: Affinity purification

Target Details

Target: Importin 4 (IPO4)

Alternative Name: IPO4 ([IPO4 Products](#))

Background: 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 RPS3A. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.,IPO4,Imp4,Epigenetics & Nuclear Signaling,Nuclear Receptor Signaling,Signal Transduction,IPO4

Molecular Weight: 119kDa

Gene ID: 79711

UniProt: [Q8TEX9](#)

Pathways: [Protein targeting to Nucleus](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

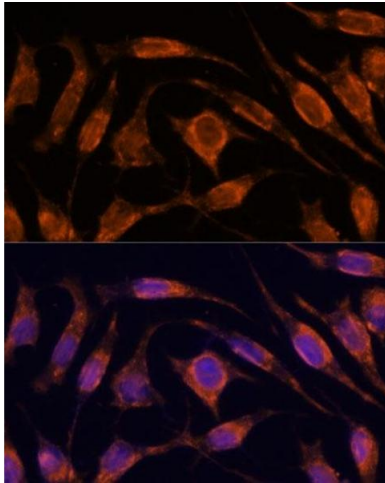
Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

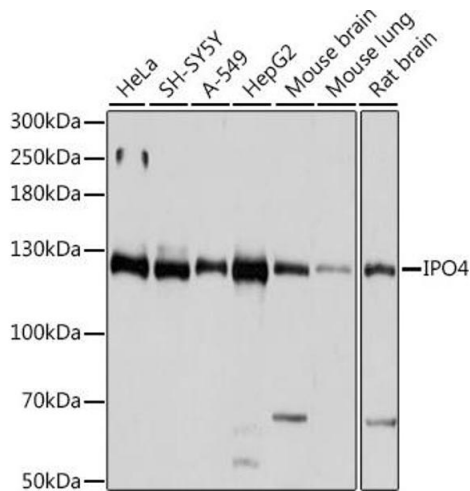
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



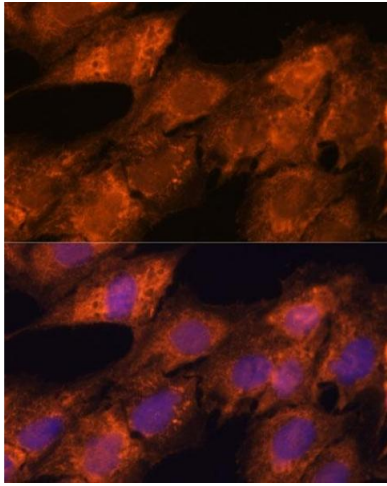
Immunofluorescence

Image 1. Immunofluorescence analysis of L929 cells using IPO4 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using IPO4 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Immunofluorescence

Image 3. Immunofluorescence analysis of C6 cells using IPO4 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7267857.