

Anti-IPO5 antibody ab88695

4 Images

Overview

Product name	Anti-IPO5 antibody
Description	Mouse polyclonal to IPO5
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant full length protein within Human IPO5. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. (AAH45640.1)
Positive control	WB: Rat brain tissue lysate; HeLa cell lysate; Karyopherin (importin) beta 3 transfected 293T cell lysate ICC/IF: HeLa cell
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab88695 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		Use a concentration of 1 µg/ml. Predicted molecular weight: 124 kDa.
ICC/IF		Use a concentration of 10 µg/ml.

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 ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In vitro, mediates nuclear import of H2A, H2B, H3 and H4 histones. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev.

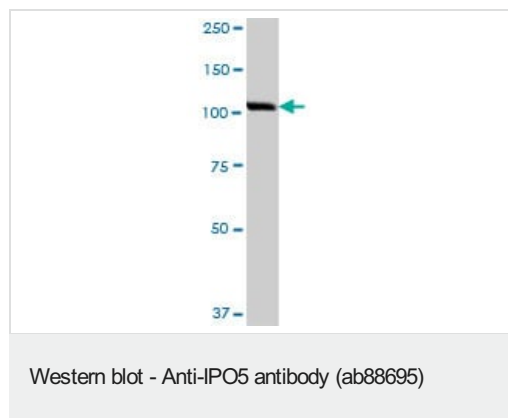
Sequence similarities

Belongs to the importin beta family.
Contains 6 HEAT repeats.
Contains 1 importin N-terminal domain.

Cellular localization

Cytoplasm. Nucleus. Nucleus > nucleolus. Nucleus; nuclear rim. Found particularly in the nuclear rim and nucleolus.

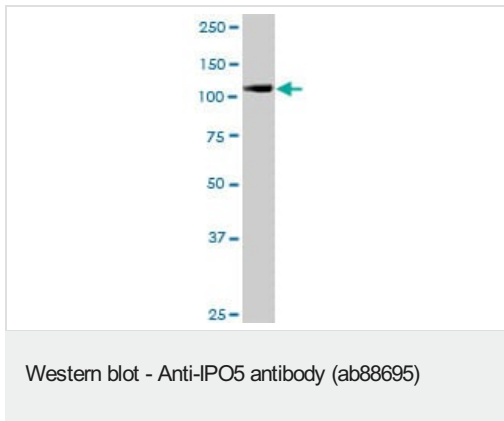
Images



Anti-IPO5 antibody (ab88695) at 1 µg/ml + rat brain tissue lysate at 50 µg

Predicted band size: 124 kDa

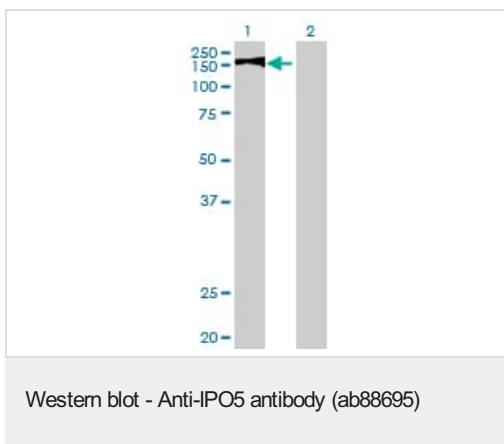
Observed band size: 110 kDa



Anti-IPO5 antibody (ab88695) at 1 µg/ml + HeLa cell lysate at 50 µg

Predicted band size: 124 kDa

Observed band size: 110 kDa



All lanes : Anti-IPO5 antibody (ab88695) at 1 µg/ml

Lane 1 : Karyopherin (importin) beta 3 transfected 293T cell lysate

Lane 2 : non transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 124 kDa

Observed band size: 160 kDa



ab88695, at 10 µg/ml, staining Karyopherin (importin) beta 3 in HeLa cell by immunofluorescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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