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Datasheet for ABIN6980929

anti-Importin 5 antibody (AA 501-600) (AbBy Fluor® 680)

Overview

Quantity:	100 µL
Target:	Importin 5 (IPO5)
Binding Specificity:	AA 501-600
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Importin 5 antibody is conjugated to AbBy Fluor® 680
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Karyopherin beta 3
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	Importin 5 (IPO5)
Alternative Name:	Karyopherin beta 3 (IPO5 Products)

Target Details

Background: Synonyms: DKFZp686O1576, FLJ43041, IMB3, Imp5, Importin 5, Importin beta 3 subunit, Importin subunit beta 3, Importin subunit beta-3, Importin-5, IPO 5, IPO5, IPO5_HUMAN, Karyopherin beta 3, Karyopherin beta-3, KPNB3, MGC2068, Pse1, Ran binding protein 5, Ran GTP binding protein 5, Ran-binding protein 5, RanBP 5, RanBP5.

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 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.

Gene ID: 3843

UniProt: [O00410](#)

Pathways: [Protein targeting to Nucleus](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months