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Datasheet for ABIN7156136

anti-KPNB1 antibody (AA 9-214) (FITC)

Overview

Quantity:	100 µL
Target:	KPNB1
Binding Specificity:	AA 9-214
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KPNB1 antibody is conjugated to FITC
Application:	Please inquire

Product Details

Immunogen:	Recombinant Human Importin subunit beta-1 protein (9-214AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	KPNB1
Alternative Name:	KPNB1 (KPNB1 Products)
Background:	Background: Functions in nuclear protein import, either in association with an adapter protein, like an importin-alpha subunit, which binds to nuclear localization signals (NLS) in cargo

Target Details

substrates, or by acting as autonomous nuclear transport receptor. Acting autonomously, serves itself as NLS receptor. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats 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 importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. 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. Mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. Binds to a beta-like import receptor binding (BIB) domain of RPL23A. In association with IPO7 mediates the nuclear import of H1 histone. 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. Imports SNAI1 and PRKCI into the nucleus.

Aliases: IMB 1 antibody, IMB1 antibody, IMB1_HUMAN antibody, Impnrb antibody, Importin 90 antibody, Importin beta 1 antibody, Importin beta 1 subunit antibody, Importin subunit beta-1 antibody, Importin-90 antibody, IPOB antibody, Karyopherin beta 1 antibody, Karyopherin beta 1 subunit antibody, Karyopherin subunit beta-1 antibody, KPNB 1 antibody, Kpnb1 antibody, MGC2155 antibody, MGC2156 antibody, MGC2157 antibody, NTF 97 antibody, NTF97 antibody, NTF97/Importin beta antibody, Nuclear factor P97 antibody, Pore targeting complex 97 kDa subunit antibody, PTAC97 antibody

UniProt: [Q14974](#)

Pathways: [Protein targeting to Nucleus](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.