Datasheet for ABIN2785469

anti-Importin 5 antibody (N-Term)

3 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	Importin 5 (IPO5)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow, Dog, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Importin 5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human RANBP5
Sequence:	GNNQWPEGLK FLFDSVSSQN VGLREAALHI FWNFPGIFGN QQQHYLDVIK
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 93%, Rabbit: 93%, Rat: 93%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against RANBP5. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	Importin 5 (IPO5)

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Target Details

Alternative Name:	RANBP5 (IPO5 Products)
Background:	Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. The import of proteins containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at the cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates and the small GTP binding protein Ran, the complex moves into the nuclear pore complex and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its passenger protein and importin beta remains at the pore. Interactions between importin beta and the FG repeats of nucleoporins are essential in translocation through the pore complex. The protein encoded by this gene is a member of the importin beta family. Alias Symbols: DKFZp686O1576, FLJ43041, IMB3, KPNB3, MGC2068, RANBP5, imp5 Protein Interaction Partner: HUWE1, UBC, STAU1, ASB15, HK2, HEXB, ATIC, MCTS1, TNFAIP8, EZR, UBA1, TXNRD1, FBXO6, BHLHB9, EGFR, MUC1, SOX2, NPM1, HDAC2, LAS1L, PELP1, WASL, VCAM1, MAP1LC3A, ITGA4, FN1, CFTR, RPL7, CA9, NOTCH1, IPO4, TNPO1, KPNB1, RAN, CUL3, ACD, TINF2, TERF1, BKRF1, Protein Size: 1115
Molecular Weight:	125 kDa
Gene ID:	3843
NCBI Accession:	NM_002271, NP_002262
Pathways:	Protein targeting to Nucleus

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1115 AA
Restrictions:	For Research Use only

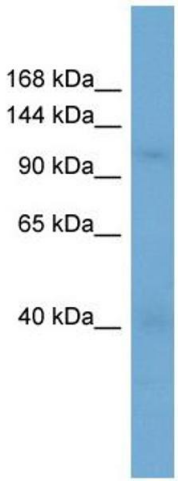
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

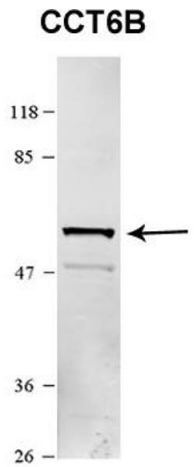


Western Blotting

Image 1. WB Suggested Anti-RANBP5 Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: Jurkat cell lysate



See Immunoblot 2 Data and Customer Fedback tab for more information.

Western Blotting

Image 2. Sample Type: HEK 293 (10ug)

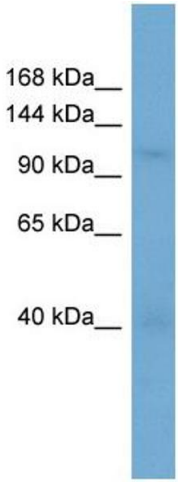
Primary Dilution: 1:1000

Secondary Antibody: conjugated goat anti-rabbit

Secondary Dilution: 1:10,000

Image Submitted By: Amy Gray

Brigham Young University



Western Blotting

Image 3. WB Suggested Anti-RANBP5

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:1562500

Positive Control: Jurkat cell lysate

IPO5 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells

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