

Mouse anti-Human NTF97/Importin beta Monoclonal Antibody | anti-IMB1 antibody

NTF97/Importin beta (835) Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62368	Mouse	Human	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

NTF97/Importin beta; Monoclonal Antibody; NTF97/Importin beta (835) Mouse mAb; importin 1; importin 90; Importin Beta; importin beta-1 subunit; Importin subunit beta-1; Importin-90; Karyopherin; karyopherin (importin) beta 1; karyopherin beta 1; Karyopherin subunit beta-1; karyopherin; beta 1; NTF97; Nuclear factor p97; Nuclear Transport Factor p97; Pore targeting complex 97 kDa subunit; PTAC97; SCG; AA409963; IMB1; Impnb; IPO1; IPOB; KPNB1; anti-IMB1 antibody

PRODUCT SPECIFICATIONS

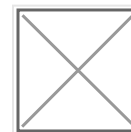
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Sequence Length	731
Applicable Applications for anti-IMB1 antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Source Note	This monoclonal antibody is produced by immunizing mice with a sythetic peptide(KLH coupled)corresponding to amino-terminal residues of human IMB1
Preparation and Storage	Store at -20 degree C. Stable for one year from the date of shipment.

IMAGES



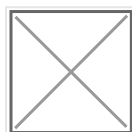
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling IMB1 with M25113 at 1/200 dilution (red) compared with a mouse monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody, blue). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP (Immunoprecipitation)

IMB1 was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with M25113 of 10 ug. Western blot was performed from the immunoprecipitate using M25113 at 1/1000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: Jurkat cells membrane fraction. Lane2: IP product of Jurkat cells membrane fraction.Predicted band size : 97 KDaObserved band size : 97 KDaBlocking and dilution buffer and concentration:5% milk/TBST.



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-IMB1 antibody	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. Two transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-IMB1 antibody	Cell Marker; Subcellular Marker; Nucleoplasma

NCBI AND UNIPROT INFORMATION

NCBI GI #	449784879
NCBI GeneID	3837
NCBI Accession #	NP_001263382.1
NCBI GenBank Nucleotide #	NM_001276453.1
UniProt Accession #	Q14974; Q14637; Q53XN2; Q96J27; B7ZAV6; D3DTT3
Molecular Weight	Predicted MW: 97kDa
NCBI Official Full Name	importin subunit beta-1 isoform 2
NCBI Official Synonym Full Names	karyopherin subunit beta 1
NCBI Official Symbol	KPNB1
NCBI Official Synonym Symbols	IMB1; IPO1; IPOB; Impnb; NTF97
NCBI Protein Information	importin subunit beta-1
UniProt Protein Name	Importin subunit beta-1
UniProt Gene Name	KPNB1
UniProt Synonym Gene Names	NTF97; PTAC97

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/ntf97-importin-beta-antibody-flow-cytometry-immunoprecipitation-western-blot-elisa/62368>