

#### OriGene Technologies, Inc.

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# Product datasheet for CF811714

## KPNB1 Mouse Monoclonal Antibody [Clone ID: OTI9D6]

### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI9D6
Applications:	WB
Recommended Dilution:	WB 1:500~2000
Reactivity:	Human, Rat, Mouse
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-200 of human KPNB1 (NP_002256) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	97 kDa
Gene Name:	karyopherin subunit beta 1
Database Link:	<u>NP_002256</u> <u>Entrez Gene 16211 MouseEntrez Gene 24917 RatEntrez Gene 3837 Human</u> <u>Q14974</u>



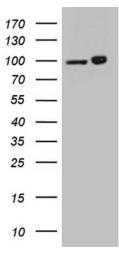
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#### **GRIGENE** KPNB1 Mouse Monoclonal Antibody [Clone ID: OTI9D6] – CF811714

Background:Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through<br/>nuclear pore complexes embedded in the nuclear envelope. The import of proteins<br/>containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer<br/>of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the<br/>NLS-containing cargo in the cytoplasm and importin beta docks the complex at the<br/>cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates<br/>and the small GTP binding protein Ran, the complex moves into the nuclear pore complex<br/>and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its<br/>passenger protein and importin beta remains at the pore. Interactions between importin beta<br/>and the FG repeats of nucleoporins are essential in translocation through the pore complex.<br/>The protein encoded by this gene is a member of the importin beta family. Two transcript<br/>variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb<br/>2013]

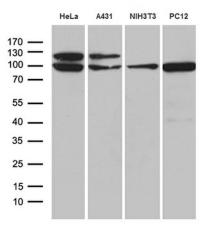
Synonyms:IMB1; Impnb; IPO1; IPOB; NTF97Protein Families:Druggable Genome, Stem cell - Pluripotency

#### **Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KPNB1 ([RC200659], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KPNB1 (1:2000). Positive lysates [LY419417] (100ug) and [LC419417] (20ug) can be purchased separately from OriGene.

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Western blot analysis of extracts (35ug) from 4 different cell lines by using anti-KPNB1 monoclonal antibody (1:500).

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