

RK05662

Leader in Biomolecular Solutions for Life Science



[One Step] KPNB1 Antibody Kit

Catalog No.: RK05662

Basic Information

Applications

Cross-Reactivity

Human, Mouse, Rat

Observed MW

102kDa

Calculated MW

97kDa

Category

Antibody kit

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. Two transcript variants encoding different isoforms have been found for this gene.

Product Information

Source

Rabbit

Purification

Storage

Avoid repeated freeze-thaw cycles.

Contact



www.abclonal.com

Component & Recommended Dilutions

| Catalog No. | Product Name | Dilutions |
|-------------|---|-----------|
| RK05662-1 | KPNB1 Rabbit pAb | 97kDa |
| RK05662-2 | HRP-conjugated Goat anti-Rabbit IgG (H+L) | 102kDa |

Immunogen Information

Gene ID

3837

Swiss Prot

Q14974

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 300-400 of human KPNB1 (NP_002256.2).

Synonyms

IMB1; IPO1; IPOB; Impnb; NTF97; KPNB1