

## Product datasheet for **TA351293**

### **KPNB1 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human cervical cancer Predicted cell location: Cytoplasm or Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human KPNB1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	karyopherin subunit beta 1
Database Link:	<a href="#">NP_002256</a> <a href="#">Entrez Gene 16211 Mouse</a> <a href="#">Entrez Gene 24917 Rat</a> <a href="#">Entrez Gene 3837 Human</a> <a href="#">Q14974</a>



[View online »](#)

**Background:**

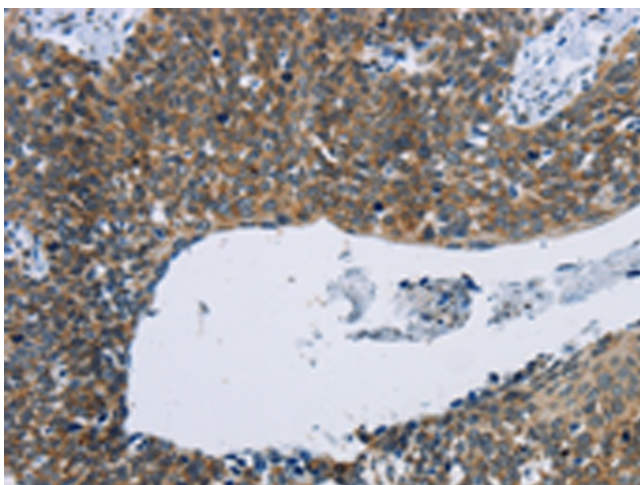
Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through nuclear pore complexes embedded in the nuclear envelope. The import of proteins containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits also 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.

**Synonyms:**

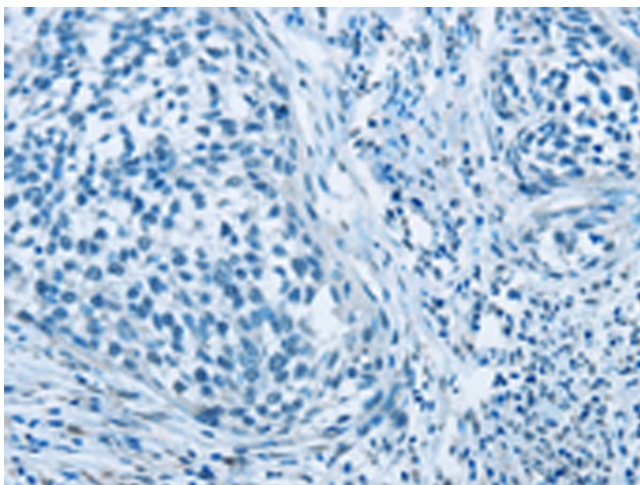
IMB1; Impnb; IPO1; IPOB; NTF97

**Protein Families:**

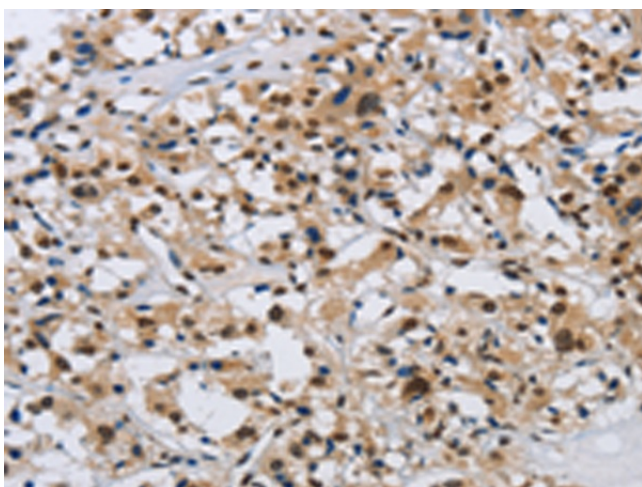
Druggable Genome, Stem cell - Pluripotency

**Product images:**

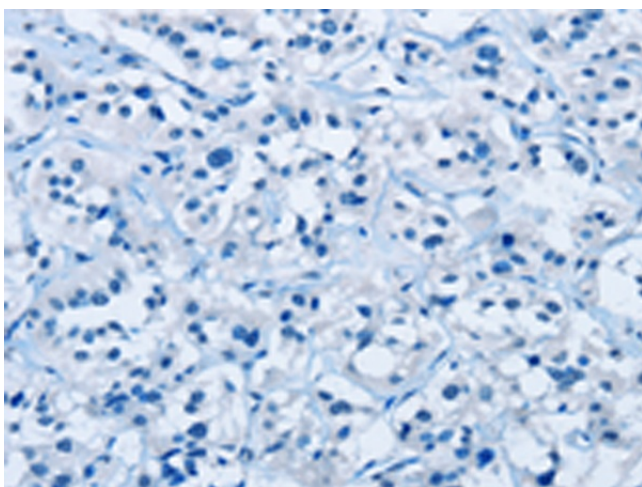
Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA351293 (KPNB1 Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA351293 (KPNB1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351293 (KPNB1 Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351293 (KPNB1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification:  $\times 200$ )