



Rabbit Anti-TNPO2 antibody

SL18157R

Product Name:	TNPO2
Chinese Name:	Transporter2抗体
Alias:	Importin 3; IPO3; Karyopherin beta 2b, transportin; KPNB2B; TNPO2; Transportin 2 (importin 3, karyopherin beta 2b); Transportin 2 (Importin 3, karyopherin beta 2b), isoform CRA b; Transportin 2; TRN2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60, 100kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TNPO2:1-100/897
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Protein transport across the nucleus is a selective, multi-step process involving several cytoplasmic factors. Proteins must be recognized as import substrates, dock at the nuclear pore complex and translocate across the nuclear envelope in an ATP-dependent fashion. Two cytosolic factors centrally involved in the recognition and docking process are the karyopherin alpha 1 and karyopherin beta1 subunits. Karyopherin alpha 1

functions in the recognition and targeting of substrates destined for nuclear import, while karyopherin beta 1 serves as an adapter, tethering the karyopherin alpha 1/substrate complex to docking proteins on the nuclear envelope, termed nucleoporins. Karyopherin alpha 2 has been shown to complex with Epstein-Barr virus nuclear antigen 1 (EBNA-1). Karyopherin beta 2 and karyopherin beta 2B (also designated transportin 1 and transportin 2) share 84% sequence identity at the amino acid level, however, they have been shown to have different substrate specificities. Karyopherin beta 2 mediates hnRNPA1 nuclear import while karyopherin beta 2B has been implicated in the export of cellular mRNAs through complexes formed with the mRNA export factor TAP.

Function:

Transportin 2 (TNPO2) mediates nuclear import of HuR protein in vitro. It also participates in mRNA export from the nucleus.

Subcellular Location:

Cytoplasm Nucleus

Similarity:

Belongs to the importin beta family.
Contains 13 HEAT repeats.
Contains 1 importin N-terminal domain.

SWISS:

O14787

Gene ID:

30000

Database links:

[Entrez Gene: 30000](#) Human

[Entrez Gene: 212999](#) Mouse

[Entrez Gene: 304670](#) Rat

[Omim: 603002](#) Human

[SwissProt: O14787](#) Human

[SwissProt: Q6IN77](#) Human

[SwissProt: Q99LG2](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

www.sunlongbiotech.com