For Research Use Only

TNPO1 Recombinant antibody, PBS Only proteintech®

Catalog Number:85007-1-PBS

Featured Product

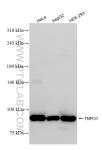
Antibodies | ELISA kits | Proteins Uni-rAb www.ptglab.com

Basic Information	Catalog Number: 85007-1-PBS Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenBank Accession Number: NM_002270 GeneID (NCBI): 3842 UNIPROT ID: Q92973 Full Name: transportin 1 Calculated MW: 102 kDa Observed MW: 90 kDa	Purification Method: Protein A purfication CloneNo.: 242269B5
Applications	Tested Applications: WB, Indirect ELISA Species Specificity: human, mouse		
Background Information	TNPO1, also named as KPNB2, MIP1, TRN and MIP, belongs to the importin beta family. TNPO1 functions in nuclear protein import as nuclear transport receptor. It serves as receptor for nuclear localization signals (NLS) in cargo substrates. TNPO1 is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. TNPO1 is involved in nuclear import of M9-containing proteins. In vitro, it binds directly to the M9 region of the heterogeneous nuclear ribonucleoproteins (hnRNP), A1 and A2 and mediates their nuclear import. It is involved in hnRNP A1/A2 nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5. It binds to a beta-like import receptor binding (BIB) domain of RPL23A. In vitro, it mediates nuclear import of H2A, H2B, H3 and H4 histones, and SRP19. In case of HIV-1 infection, binds and mediates the nuclear import of HIV-1 Rev. The antibody is specific to TNPO1.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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Selected Validation Data



WB result of TNPO 1 antibody (85007-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TNPO 1 transfected HeLa cells. This data was developed using the same antibody clone with 85007-1-PBS in a different storage buffer formulation.

Various lysates were subjected to SDS PAGE followed by western blot with 85007-1-RR (TNPO 1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85007-1-PBS in a different storage buffer formulation.