

For Research Use Only

TNPO3 Recombinant antibody

Catalog Number: 83704-2-RR



Basic Information

Catalog Number:

83704-2-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8769

GenBank Accession Number:

BC009923

GeneID (NCBI):

23534

UNIPROT ID:

Q9Y5LO

Full Name:

transportin 3

Calculated MW:

975 aa, 110 kDa

Observed MW:

104 kDa

Purification Method:

Protein A purification

CloneNo.:

240728F8

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : Jurkat cells, C2C12 cells, NIH/3T3 cells, mouse brain tissue, rat thymus tissue

Background Information

Transportin 3 (TNPO3) also known as IPO12, TRNSR, is a karyopherin β that works as a nuclear carrier shuttling, from the cytoplasm to the nucleus, the serine/arginine-rich proteins (PMID: 33452620). TNPO3 specifically mediates the nuclear import of splicing factor serine/arginine (SR) proteins, such as RBM4, SFRS1, and SFRS2, by recognizing phosphorylated SR domains (PMID: 11517331, 12628928). Mutations in TNPO3 are associated with Autosomal Dominant Limb-Girdle Muscular Dystrophy 2 (PMID: 23543484).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

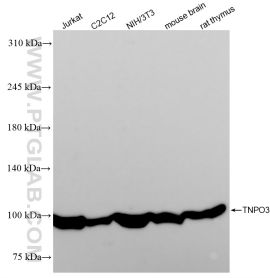
T: 4006900926

E: Proteintech-CN@ptglab.com

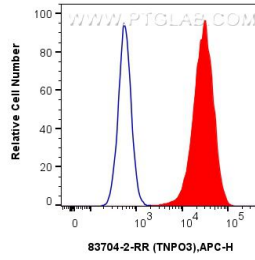
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

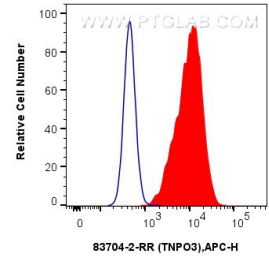
Selected Validation Data



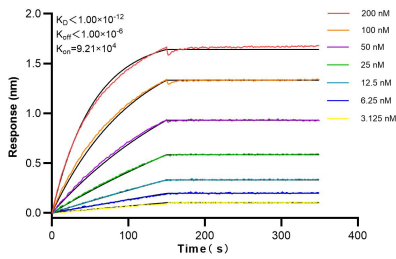
Various lysates were subjected to SDS PAGE followed by western blot with 83704-2-RR (TNPO3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug TNPO3 Recombinant antibody (83704-2-RR, Clone:240728F8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



1x10⁶ U-2 OS were intracellularly stained with 0.25 ug TNPO3 Recombinant antibody (83704-2-RR, Clone:240728F8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Bioluminescence resonance energy transfer (BLI) kinetic assays of 83704-2-RR against Human TNPO3 were performed. The affinity constant is below 1 pM.