

For Research Use Only

# TNPO3 Recombinant antibody

Catalog Number: 83704-2-RR



## Basic Information

<b>Catalog Number:</b> 83704-2-RR	<b>GenBank Accession Number:</b> BC009923	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23534	<b>CloneNo.:</b> 240728F8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y5LO	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> transportin 3	
<b>Immunogen Catalog Number:</b> AG8769	<b>Calculated MW:</b> 975 aa, 110 kDa	
	<b>Observed MW:</b> 104 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : Jurkat cells, C2C12 cells, NIH/3T3 cells, mouse brain tissue, rat thymus tissue
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

Transportin 3 (TNPO3) also known as IPO12, TRNSR, is a karyopherin  $\beta$  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

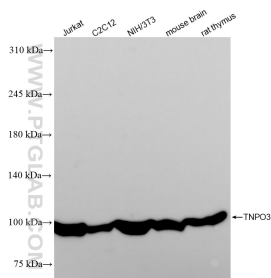
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

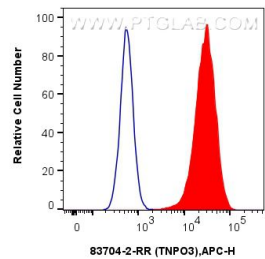
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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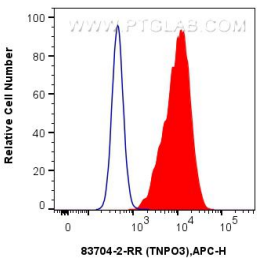
## Selected Validation Data



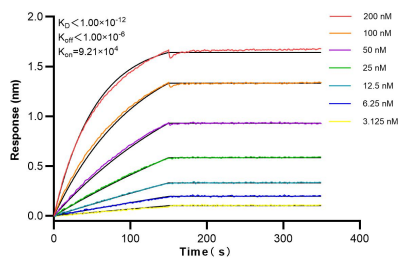
Various lysates were subjected to SDS PAGE followed by western blot with 83704-2-RR (TNPO3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug TNPO3 Recombinant antibody (83704-2-RR, Clone:240728F8) and APC-Conjugated 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.



1x10<sup>6</sup> U-2 OS were intracellularly stained with 0.25 ug TNPO3 Recombinant antibody (83704-2-RR, Clone:240728F8) and APC-Conjugated 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.