

For Research Use Only

# TRNP1 Recombinant antibody

Catalog Number: 83410-4-RR



## Basic Information

Catalog Number:	83410-4-RR	GenBank Accession Number:	BC069216	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI):	388610	CloneNo.:	240331B6
Source:	Rabbit	UNIPROT ID:	Q6NT89	Recommended Dilutions:	IHC 1:200-1:800 IF-P 1:200-1:800 IF/ICC 1:125-1:500
Isotype:	IgG	Full Name:	TMF1-regulated nuclear protein 1		
Immunogen Catalog Number:	AG22504	Calculated MW:	227 aa, 23 kDa		

## Applications

Tested Applications:	IHC, IF/ICC, IF-P, ELISA	Positive Controls:	
Species Specificity:	human	IHC :	mouse brain tissue,
		IF-P :	mouse brain tissue,
		IF/ICC :	HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>			

## Background Information

TRNP1 (TMF-regulated nuclear protein 1), also called C1orf225, is a DNA-binding factor that regulates the expression of a subset of genes and plays a key role in tangential, radial, and lateral expansion of the brain neocortex (PMID: 27264089; 23622239; 36947129). It has been shown to exert potent roles in neural development affecting neural stem cell self-renewal and brain folding (PMID: 32627867). It may also control the proliferation rate of cells by regulating their progression through key cell-cycle transition points.

## 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

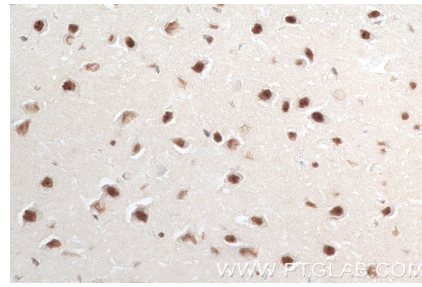
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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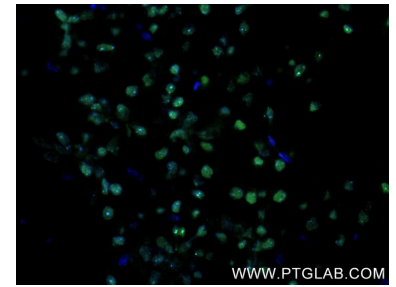
## Selected Validation Data



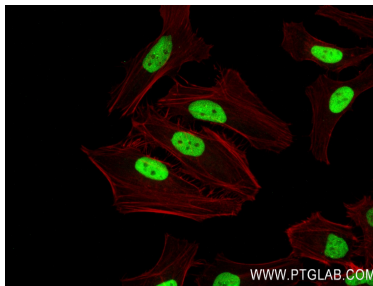
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83410-4-RR (TRNP1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



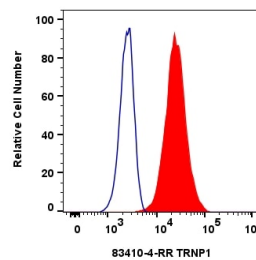
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83410-4-RR (TRNP1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



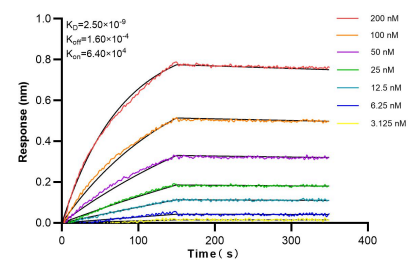
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TRNP1 antibody (83410-4-RR, Clone: 240331B6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TRNP1 antibody (83410-4-RR, Clone: 240331B6) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug TRNP1 Recombinant antibody (83410-4-RR, Clone:240331B6) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Bilayer interferometry (BLI) kinetic assays of 83410-4-RR against Human TRNP1 were performed. The affinity constant is 2.5 nM.