

For Research Use Only

TERF2 Monoclonal antibody

Catalog Number: 66893-1-Ig **5 Publications**



Basic Information

Catalog Number: 66893-1-Ig	GenBank Accession Number: BC024890	Purification Method: Protein A purification
Size: 150ul, Concentration: 2000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7014	CloneNo.: 5B1E1
Source: Mouse	UNIPROT ID: Q15554	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: telomeric repeat binding factor 2	
Immunogen Catalog Number: AG28513	Calculated MW: 56 kDa	
	Observed MW: 60-65.32-35 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF, CHIP	WB : Jurkat cells, MCF-7 cells, HT-29 cells, K-562 cells, HEK-293 cells, Daudi cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells
Species Specificity: Human, mouse, rat	IHC : human gliomas tissue, rat brain tissue, mouse brain tissue
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

TERF2, also named as TRF2 and Telomeric repeat-binding factor 2, is a 542 amino acid protein, which contains 1 HTH myb-type DNA-binding domain and localizes in the Nucleus. TRF2 binds the telomeric double-stranded 5'-TTAGGG-3' repeat and plays a central role in telomere maintenance and protection against end-to-end fusion of chromosomes. TERF2 is a component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. TERF2 together with DCLRE1B/Apollo, is required to control the amount of DNA topoisomerase (TOP1, TOP2A and TOP2B), which is needed for telomere replication during fork passage and prevent aberrant telomere topology. TERF2 recruits TERF2IP/RAP1 to telomeres, thereby participating in to repressing homology-directed repair (HDR), which can affect telomere length. TERF2 exists some isoforms with MV 60 kDa and 32 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyu Qi	35837283	Front Pharmacol	WB
Ji Hoon Lee	34321211	Sci Adv	IF
Yi-Xiang Hong	39511427	Exp Mol Med	WB

Storage

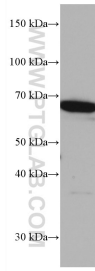
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

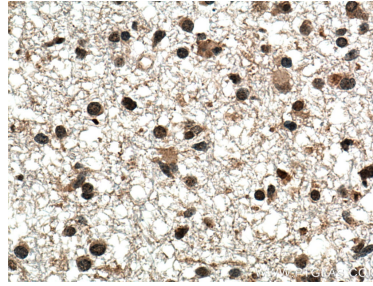
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



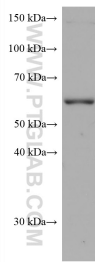
MCF-7 cells were subjected to SDS PAGE followed by western blot with 66893-1-Ig (TERF2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



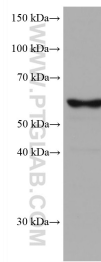
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66893-1-Ig (TERF2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



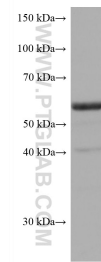
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66893-1-Ig (TERF2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HEK-293 cells were subjected to SDS PAGE followed by western blot with 66893-1-Ig (TERF2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Jurkat cells were subjected to SDS PAGE followed by western blot with 66893-1-Ig (TERF2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



4T1 cells were subjected to SDS PAGE followed by western blot with 66893-1-Ig (TERF2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.