

For Research Use Only

TERF2 Polyclonal antibody

Catalog Number: 22020-1-AP **2 Publications**



Basic Information

Catalog Number: 22020-1-AP	GenBank Accession Number: BC024890	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7014	Recommended Dilutions: WB 1:2000-1:12000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB IHC 1:50-1:500
Source: Rabbit	Full Name: telomeric repeat binding factor 2	
Isotype: IgG	Calculated MW: 56 kDa	
Immunogen Catalog Number: AG16798	Observed MW: 65-69 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : HeLa cells, MCF-7 cells, NIH/3T3 cells, Jurkat cells, K-562 cells IP : K-562 cells, IHC : human gliomas tissue, rat brain tissue, mouse brain tissue
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human	

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

TRF2, also named as TRBF2 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. TRF2 is a component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. TRF2 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. TRF2 recruits TERF2IP/RAP1 to telomeres, thereby participating in to repressing homology-directed repair (HDR), which can affect telomere length.

Notable Publications

Author	Pubmed ID	Journal	Application
Wanjun Liu	37828426	Cell Mol Biol Lett	WB
Qihui Yang	37113742	Oxid Med Cell Longev	WB

Storage

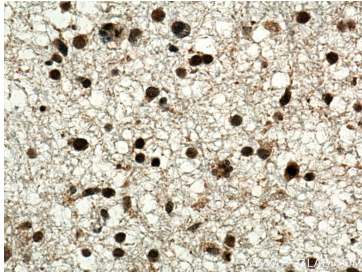
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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

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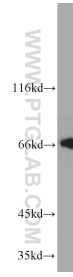
Selected Validation Data



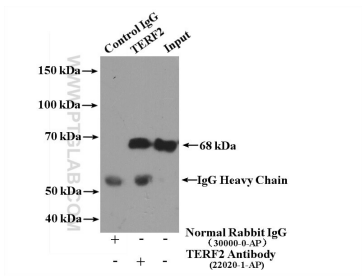
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22020-1-AP (TERF2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



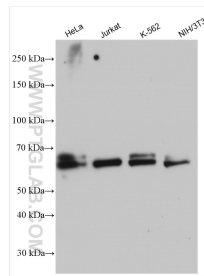
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22020-1-AP (TERF2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Jurkat cells were subjected to SDS PAGE followed by western blot with 22020-1-AP (TERF2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-TERF2 (IP:22020-1-AP, 4ug; Detection:22020-1-AP 1:500) with K-562 cells lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 22020-1-AP (TERF2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.