

For Research Use Only

# TERF2 Polyclonal antibody

Catalog Number: 22020-1-AP

Featured Product

2 Publications



## Basic Information

**Catalog Number:**

22020-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG16798

**GenBank Accession Number:**

BC024890

**GeneID (NCBI):**

7014

**UNIPROT ID:**

Q15554

**Full Name:**

telomeric repeat binding factor 2

**Calculated MW:**

56 kDa

**Observed MW:**

65-69 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:12000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IHC, ELISA

**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**

**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

## 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 homologous-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

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

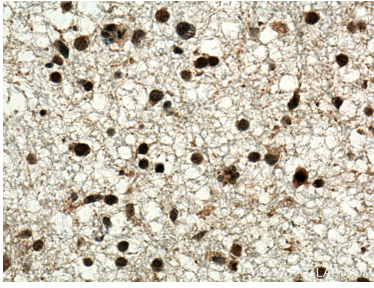
T: 4006900926

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.**

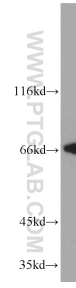
## Selected Validation Data



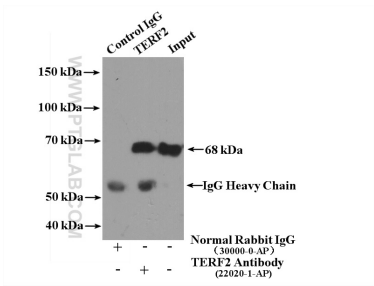
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22020-1-AP (TERF2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



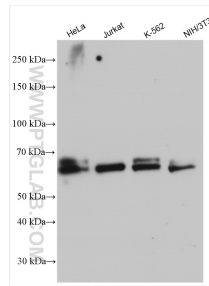
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22020-1-AP (TERF2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.