

For Research Use Only

# TERF2 Polyclonal antibody

Catalog Number: 22020-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

22020-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;

### 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 ug 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

### 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

**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

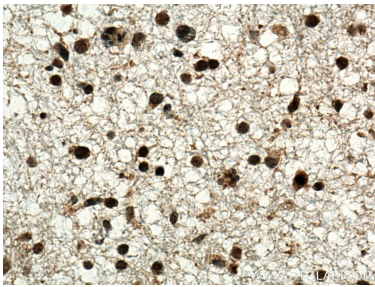
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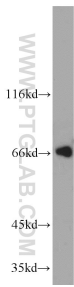
Selected Validation Data



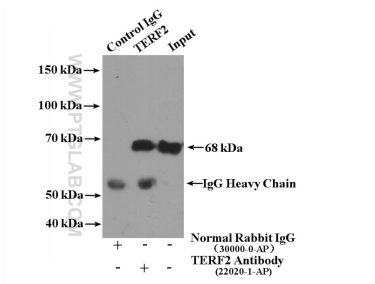
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22020-1-AP (TERF2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



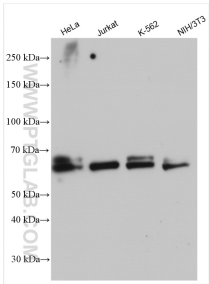
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 22020-1-AP (TERF2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.