For Research Use Only

TERF2 Monoclonal antibody, PBS Only

Catalog Number:66893-1-PBS

Basic Information

Catalog Number:
66893-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28513

GenBank Accession Number:
BC024890

GeneID (NCBI):
7014

UNIPROT ID:
Q15554

Full Name:
telomeric repeat binding factor 2

Calculated MW:
56 kDa

Observed MW:
60-65.32-35 kDa

Purification Method:
Protein A purification

CloneNo.:
5B1E1

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
Human, mouse, rat

Background Information

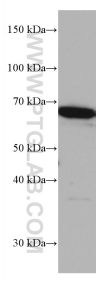
TERF2, also named as TRF2 and Telomeric repeat-binding factor 2, is a 542 amino acid protein, which contains 1 HTH myb-type DNA-binding domain and localizes in the Nucleus. TRF2 binds the telomeric double-stranded 5'-TTAGGG-3' repeat and plays a central role in telomere maintenance and protection against 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.

Storage

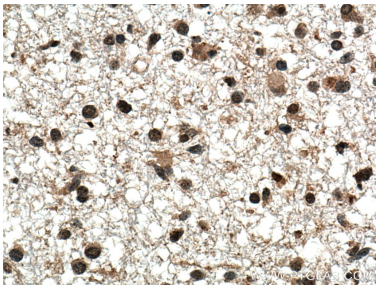
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

Selected Validation Data

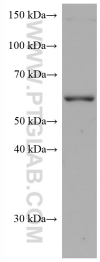


MCF-7 cells were subjected to SDS PAGE followed by western blot with 66893-1-Ig (TERF2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66893-1-PBS in a different storage buffer formulation.

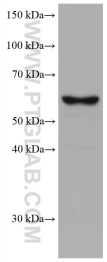


Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66893-1-Ig (TERF2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66893-1-PBS in a different storage buffer formulation.

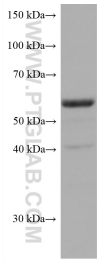
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66893-1-Ig (TERF2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66893-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66893-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66893-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66893-1-PBS in a different storage buffer formulation.