

CoraLite® Plus 488-conjugated TERF2 Monoclonal antibody

Catalog Number: CL488-66893

Basic Information

Catalog Number:

CL488-66893

Size:

1000 µg/ml

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 G purification

CloneNo.:

5B1E1

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

FC (Intra)

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:

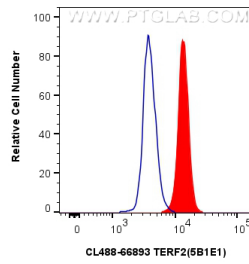
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1x10⁶ U2OS cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Terf2 Monoclonal Antibody (CL488-66893, Clone:5B1E1)(red), or 0.8 ug Coralite® Plus 488 Mouse IgG1 Isotype Control (1F8D3) (CL488-66360-1, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).