

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human TRF2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human TRF1 is observed.                                                                                                                                                         |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 689524                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human TRF2<br>Gln78-Thr238 (predicted)<br>Accession # Q15554                                                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

TRF2 (telomeric repeat-binding factor 2; also telomeric DNA-binding protein) is a 55-60 kDa, ubiquitously expressed nuclear protein that participates in telomere homeostasis. TRF-2 binds as a dimer to TTAGGG repeats at ends of chromosomes (telomeres), where it blocks inappropriate activation of the ATM/p53 pathway. It also collaborates with TRF1 to promote normal telomere length. Human TRF2 is 500 amino acids (aa) in length. It contains an N-terminal Arg-rich region (aa 13-30), a dimerization domain (aa 46-112), an NLS (aa 329-333), and a DNA binding HTH myb-type domain (aa 442-499). There is one potential alternate start site 42 aa upstream of the standard start site, and one splice form that shows a 13 aa substitution for aa 239-500. Over aa 78-238, human TRF2 shares 96% aa identity with mouse TRF2.

## PRODUCT SPECIFIC NOTICES

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