

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRF2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human TRF1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 689524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TRF2 Gln78-Thr238 (predicted) Accession # Q15554
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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.

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