

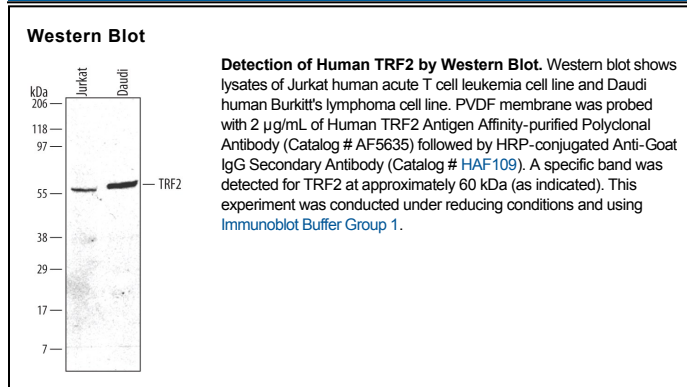
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects endogenous human TRF2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TRF2 Gln78-Thr238 Accession # Q15554
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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. TRF2 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. TRF2 has been found up regulated in several human cancers. 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.