

DESCRIPTION

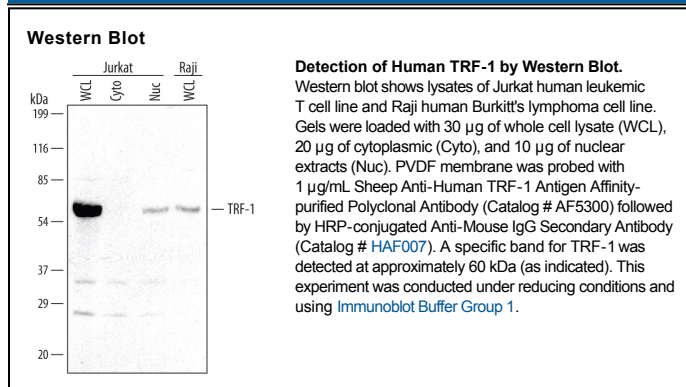
Species Reactivity	Human
Specificity	Detects human TRF-1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TRF-1 Lys136-Lys295 Accession # P54274
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 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	1 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

TRF-1 (telomeric repeat-binding factor 1; also Pin2) is a nuclear protein that participates in telomere homeostasis. Although its predicted molecular weight is 50 kDa, it runs anomalously at 60 kDa in SDS-PAGE. TRF-1 binds as a dimer to the ends of chromosomes (telomeres), where it blocks telomerase activity, promoting normal cell senescence and turnover. Human TRF-1 is 439 amino acids (aa) in length. It contains an N-terminal acidic region (aa 2-64), a dimerization domain (aa 65-265), an NLS (aa 337-356), and a DNA binding HTH myb-type domain (aa 375-432). Phosphorylation of TRF-1 at Ser435 mediates its binding to DNA. One alternate splice form shows a deletion of aa 295-315 that may be accompanied by a 36 aa N-terminal extension. Over aa 136-295, human TRF-1 shares 72% aa identity with mouse TRF-1.