

## DESCRIPTION

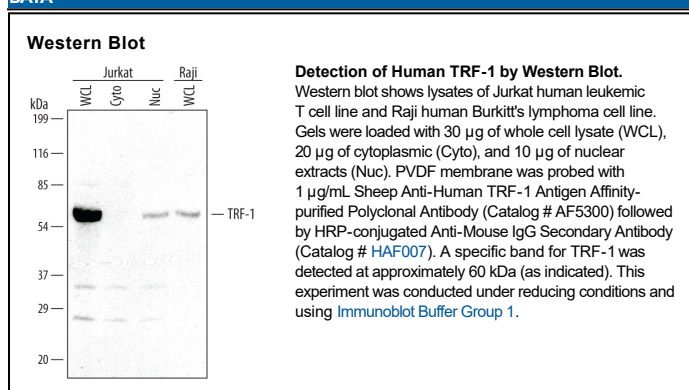
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRF-1 in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human TRF-1 Lys136-Lys295 Accession # P54274
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.