

## DESCRIPTION

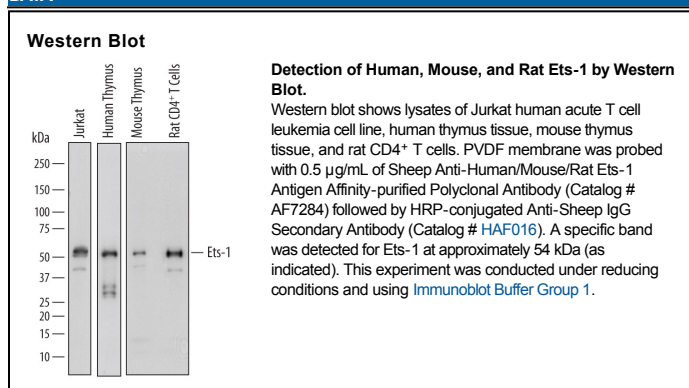
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat Ets-1 in Western blots and detects recombinant human Ets-1 in direct ELISAs.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Ets-1 Glu127-Val230 Accession # P14921
<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 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
<b>Western Blot</b>	0.5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<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

Ets-1 (E26 Transformation-Specific 1; also p54 and c-ets1) is a 52-54 kDa member of the ETS family of proteins. It is found in multiple cell types, and serves as a transcriptional regulator (generally activator) of multiple target genes, including prolactin, the transferrin receptor, and Cyclin E. By upregulating Cyclin E and CDK2 genes, it promotes cell-cycle progression. Ets-1 forms complexes with both transcriptional activators (AP-1 and GHF-1) and repressors (MafB and Daxx). Human Ets-1 is 441 amino acids (aa) in length. It contains one PNT domain (aa 51-136) that binds ERK2, and a DNA-binding ETS domain (aa 335-415). There are two SUMOylation sites, plus four utilized phosphorylation and acetylated lysine sites. At least four potential isoform variants are reported. One shows a deletion of aa 244-330 (termed isoform 1B), a second shows a deletion of aa 262-331, a third contains a deletion of aa 28-244, and a fourth possesses an 11 aa substitution for aa 262-441. Over aa 127-230, human Ets-1 shares 95% aa identity with mouse Ets-1.