Human/Mouse/Rat Ets-1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7284

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Ets-1 in Western blots and detects recombinant human Ets-1 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Ets-1 Glu127-Val230 Accession # P14921
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.

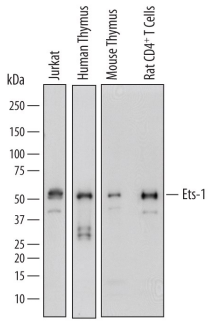
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat Ets-1 by Western Blot.
Western blot shows lysates of Jurkat human acute T cell leukemia cell line, human thymus tissue, mouse thymus tissue, and rat CD4+ T cells. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Human/Mouse/Rat Ets-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7284) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Ets-1 at approximately 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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.** ● 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

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.