

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	<i>E. coli</i> -derived recombinant human Ets-1 Glu127-Val230 Accession # P14921
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.