

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Ets-1 in ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 800710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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.

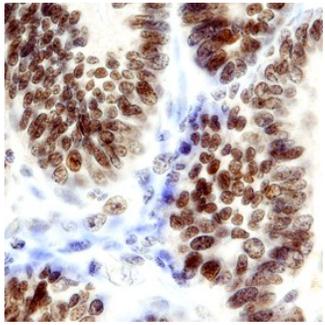
APPLICATIONS

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
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



Ets-1 in Human Kidney. Ets-1 was detected in formalin fixed paraffin-embedded sections of human kidney using Mouse Anti-Human Ets-1 Monoclonal Antibody (Catalog # MAB7284) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

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.