Human ELF3 Antibody

Monoclonal Mouse IgG_1 Clone # 662516

Catalog Number: MAB57871

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ELF3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human ELF5 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 662516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human ELF3 Met1-Gly173 Accession # P78245
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.

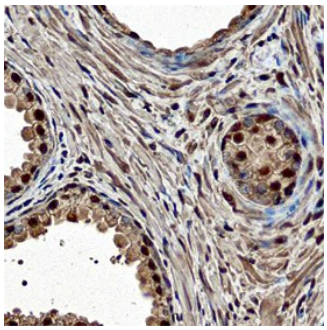
APPLICATIONS

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



ELF3 in Human Prostate. ELF3 was detected in immersion fixed paraffin-embedded sections of human prostate using Mouse Anti-Human ELF3 Monoclonal Antibody (Catalog # MAB57871) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). 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 of glandular epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 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

ELF3 (E74-Like Factor 3; also ESE-1, ESX, ERT and JEN) is a 41-43 kDa member of the ETS family of proteins. During uncomplicated (non-inflammatory) periods of cell differentiation, ELF3 is expressed exclusively by epithelial cells, repressing genes needed during early differentiation, and promoting genes needed for full differentiation. Under conditions of inflammation, cells such as monocytes, endothelial cells and chrondrocytes will express ELF3 and produce molecules such as Ang1 and COX2. Human ELF3 is 371 amino acids (aa) in length. It contains one PNT/pointed dimerization domain (aa 46-132), a protein stabilizing PEST sequence (aa 210-225), an A/T Hook region that binds to AT-rich DNA sequences (aa 236-252), and an ETS DNA binding domain (aa 273-355). ELF3 interacts with CREBBP, EP300, KU70 and KU86. There is one splice variant that shows a deletion of aa 174-200. Over aa 1-173, human ELF3 shares 87% aa identity with mouse ELF3.