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Goat Anti-ELF3 / ERT/ ESX Antibody
Peptide-affinity purified goat antibody
Catalog # AF1361a

Specification

Goat Anti-ELF3 / ERT/ ESX Antibody - Product Information

Application	**WB, E**
Primary Accession	P78545
Other Accession	NP_004424, 1999
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**41454**

Goat Anti-ELF3 / ERT/ ESX Antibody - Additional Information

Gene ID 1999

Other Names
ETS-related transcription factor Elf-3, E74-like factor 3, Epithelial-restricted with serine box, Epithelium-restricted Ets protein ESX, Epithelium-specific Ets transcription factor 1, ESE-1, ELF3 (HGNC:3318)

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-ELF3 / ERT/ ESX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ELF3 / ERT/ ESX Antibody - Protein Information

Name ELF3 (HGNC:3318)

Function

Transcriptional activator that binds and transactivates ETS sequences containing the consensus nucleotide core sequence GGA[AT]. Acts synergistically with POU2F3 to transactivate the SPRR2A promoter and with RUNX1 to transactivate the ANGPT1 promoter. Also transactivates collagenase, CCL20, CLND7, FLG, KRT8, NOS2, PTGS2, SPRR2B, TGFBR2 and TGM3 promoters. Represses KRT4 promoter activity. Involved in mediating vascular inflammation. May play an important role in epithelial cell differentiation and tumorigenesis. May be a critical downstream effector of the ERBB2 signaling pathway. May be associated with mammary gland development and involution. Plays an important role in the regulation of transcription with TATA-less promoters in preimplantation embryos, which is essential in preimplantation development (By similarity).

Cellular Location
Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00237, ECO:0000269|PubMed:10391676, ECO:0000269|PubMed:15169914, ECO:0000269|PubMed:17060315} Note=Localizes to the cytoplasm where it has been shown to transform MCF-12A mammary epithelial cells via a novel cytoplasmic mechanism Also transiently expressed and localized to the nucleus where it induces apoptosis in non-transformed breast epithelial cells MCF-10A and MCF-12A via a transcription-dependent mechanism

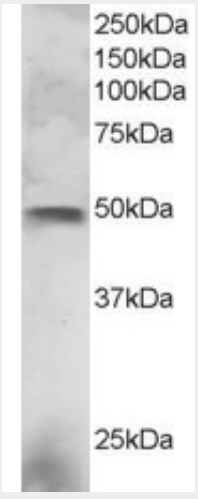
Tissue Location
Expressed exclusively in tissues containing a high content of terminally differentiated epithelial cells including mammary gland, colon, trachea, kidney, prostate, uterus, stomach and skin

Goat Anti-ELF3 / ERT/ ESX Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-ELF3 / ERT/ ESX Antibody - Images



AF1361a staining (3 µg/ml) of NCI-H460 lysate (RIPA buffer, 30 µg total protein per lane). Primary

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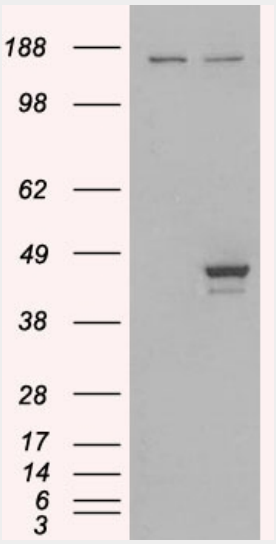
incubated for 1 hour. Detected by western blot using chemiluminescence.



HEK293 overexpressing ELF3 (RC200631) and probed with AF1361a (mock transfection in first lane), tested by Origene.

Goat Anti-ELF3 / ERT/ ESX Antibody - References

ESE-1/EGR-1 pathway plays a role in tolfenamic acid-induced apoptosis in colorectal cancer cells. Lee SH, et al. Mol Cancer Ther, 2008 Dec. PMID 19074849.
Regulation of epithelium-specific Ets-like factors ESE-1 and ESE-3 in airway epithelial cells: potential roles in airway inflammation. Wu J, et al. Cell Res, 2008 Jun. PMID 18475289.
ESE-1 inhibits the invasion of oral squamous cell carcinoma in conjunction with MMP-9 suppression. Iwai S, et al. Oral Dis, 2008 Mar. PMID 18302674.
ESE-1 is a potent repressor of type II collagen gene (COL2A1) transcription in human chondrocytes. Peng H, et al. J Cell Physiol, 2008 May. PMID 18044710.
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.