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ELF3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9441b

Specification

ELF3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P78545

ELF3 Antibody (C-term) Blocking Peptide - 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)

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ELF3 Antibody (C-term) Blocking Peptide - 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

ELF3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ELF3 Antibody (C-term) Blocking Peptide - Images

ELF3 Antibody (C-term) Blocking Peptide - References

Lee, S.H., et al. Mol. Cancer Ther. 7(12):3739-3750(2008)Wu, J., et al. Cell Res. 18(6):649-663(2008)Peng, H., et al. J. Cell. Physiol. 215(2):562-573(2008)Iwai, S., et al. Oral Dis 14(2):144-149(2008)Manavathi, B., et al. J. Biol. Chem. 282(27):19820-19830(2007)Choi, S.G., et al. J. Biol. Chem. 273(1):110-117(1998)