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Phospho-KLF4(S245) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3652a

Specification

Phospho-KLF4(S245) Antibody Blocking peptide - Product Information

Primary Accession O43474

Phospho-KLF4(S245) Antibody Blocking peptide - Additional Information

Gene ID 9314

Other Names
Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor, KLF4, EZF, GKLF

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3652a was selected from the region of human Phospho-KLF4-S245. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Phospho-KLF4(S245) Antibody Blocking peptide - Protein Information

Name KLF4

Phospho-KLF4(S245) Antibody Blocking peptide - Background

Kr??pel-like factor 4 (KLF4) is a transcription factor involved in both proliferation and differentiation in the colon. It is down-regulated in both mouse and human colonic adenomas and has been implicated as a tumor suppressor in the gut, whereas in breast cancer, KLF4 is an oncogene. KLF4 is also involved in reprogramming differentiated cells into pluripotent stem cells. KLF4 can act as a transcriptional activator or repressor, but the underlying mechanisms are poorly understood.

Phospho-KLF4(S245) Antibody Blocking peptide - References

Alder,J.K., J. Immunol. 180 (8), 5645-5652 (2008)Natesampillai,S., Am. J. Physiol. Endocrinol. Metab. 294 (2), E385-E391 (2008)Evans,P.M., J. Biol. Chem. 282 (47), 33994-34002 (2007)Behr,R., Mol. Hum. Reprod. 13 (11), 815-820 (2007)

Synonyms EZF, GKLF

Function
Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription.

Cellular Location
Nucleus.

Phospho-KLF4(S245) Antibody Blocking peptide - Protocols

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

- Blocking Peptides