10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KLF4 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5208

Specification

KLF4 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	O43474
Other Accession	NP_004226
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=55,51,46 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

KLF4 Antibody (N-term) - Additional Information

Gene ID 9314

Antigen Region
20-53

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

Dilution
WB~~1:1000

Target/Specificity
This KLF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20-53 amino acids from the N-terminal region of human KLF4.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

Precautions
KLF4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KLF4 Antibody (N-term) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name KLF4 (HGNC:6348)

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.

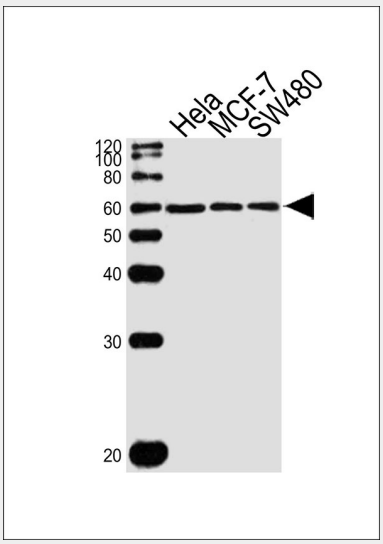
Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q60793}. Cytoplasm {ECO:0000250|UniProtKB:Q60793}

KLF4 Antibody (N-term) - 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

KLF4 Antibody (N-term) - Images



Western blot analysis of lysates from Hela,MCF-7,SW480 cell line (from left to right), using KLF4 Antibody (N-term)(Cat. #AW5208). AW5208 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

KLF4 Antibody (N-term) - Background

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Kruppel-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.

KLF4 Antibody (N-term) - 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)