

# KLF4 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5208

## Product Information

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Application	WB
Primary Accession	<a href="#">O43474</a>
Other Accession	<a href="#">NP_004226</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54671
Isotype	Rabbit IgG
Antigen Source	HUMAN

## Additional Information

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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.

## Protein Information

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Name	KLF4 ( <a href="#">HGNC:6348</a> )
Synonyms	EZF, GKLF

<b>Function</b>	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.
<b>Cellular Location</b>	Nucleus {ECO:0000250 UniProtKB:Q60793}. Cytoplasm {ECO:0000250 UniProtKB:Q60793}

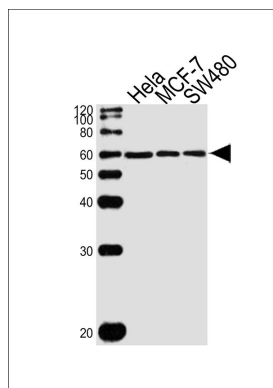
## Background

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.

## 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)

## 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.