

KLF4 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12069c**Specification**

KLF4 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O43474
Other Accession	NP_004226.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54671
Antigen Region	283-314

KLF4 Antibody (Center) - 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

This KLF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 283-314 amino acids from the Central region of human KLF4.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

KLF4 Antibody (Center) - Protein Information**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.

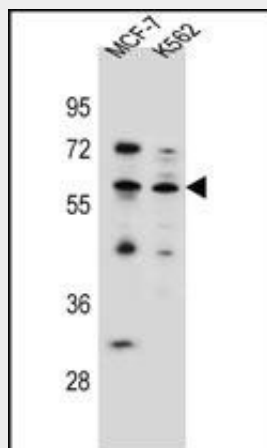
Cellular Location

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

KLF4 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KLF4 Antibody (Center) - Images

KLF4 Antibody (Center) (Cat. #AP12069c) western blot analysis in MCF-7, K562 cell line lysates (35ug/lane). This demonstrates the KLF4 antibody detected the KLF4 protein (arrow).

KLF4 Antibody (Center) - Background

KLF4 is a transcription factor which acts as both an activator and repressor. Binds the CACCC core sequence. Binds to multiple sites in the 5'-flanking region of its own gene and can activate its own transcription. 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.

KLF4 Antibody (Center) - References

Guan, H., et al. Blood 116(9):1469-1478(2010)
Wong, C.W., et al. Stem Cells 28(9):1510-1517(2010)
Ohnesorge, N., et al. J. Biol. Chem. 285(34):26199-26210(2010)
Cekanova, M., et al. Eur. J. Pharmacol. 637 (1-3), 30-37 (2010) :
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