

# KLF4 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM2725A

## Product Information

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<b>Application</b>	FC, IF, WB, E
<b>Primary Accession</b>	<a href="#">O43474</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b, $\kappa$
<b>Clone Names</b>	56CT5.1.6
<b>Calculated MW</b>	54671

## Additional Information

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<b>Gene ID</b>	9314
<b>Other Names</b>	Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor, KLF4, EZF, GKLF
<b>Target/Specificity</b>	KLF4 recombinant protein is used to produce this monoclonal antibody.
<b>Dilution</b>	FC~~1:10~50 IF~~1:10~50 WB~~1:200~2000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	KLF4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	KLF4 ( <a href="#">HGNC:6348</a> )
<b>Synonyms</b>	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.

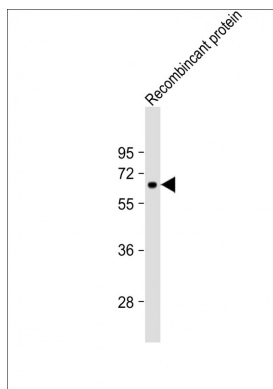
#### Cellular Location

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

## References

MCC-555-induced NAG-1 expression is mediated in part by KLF4. Cekanova M, et al. Eur J Pharmacol, 2010 Jul 10. PMID 20385121. Kruppel-like factor 4 inhibits epithelial-to-mesenchymal transition through regulation of E-cadherin gene expression. Yori JL, et al. J Biol Chem, 2010 May 28. PMID 20356845. MicroRNA-10b promotes migration and invasion through KLF4 in human esophageal cancer cell lines. Tian Y, et al. J Biol Chem, 2010 Mar 12. PMID 20075075. Genetic and epigenetic inactivation of Kruppel-like factor 4 in medulloblastoma. Nakahara Y, et al. Neoplasia, 2010 Jan. PMID 20072650. Kruppel-like factor 4 (Klf4) prevents embryonic stem (ES) cell differentiation by regulating Nanog gene expression. Zhang P, et al. J Biol Chem, 2010 Mar 19. PMID 20071344.

## Images



Anti-KLF4 Antibody at 1:4000 dilution + Recombinant protein lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- [Metastatic site influences driver gene function in pancreatic cancer](#)
- [Helicobacter pylori CagA promotes the malignant transformation of gastric mucosal epithelial cells through the dysregulation of the miR-155/KLF4 signaling pathway.](#)
- [Systematic Generation of Patient-Derived Tumor Models in Pancreatic Cancer.](#)
- [Succession of transiently active tumor-initiating cell clones in human pancreatic cancer xenografts.](#)
- [KLF4  \$\uparrow\$  up-regulation promotes cell cycle progression and reduces survival time of patients with pancreatic cancer.](#)

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