

**Mouse Klf4 Antibody (Center)  
Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AW5431**

**Specification**

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**Mouse Klf4 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q60793</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	M=52 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**Mouse Klf4 Antibody (Center) - Additional Information**

**Gene ID** 16600

**Antigen Region**  
321-354

**Other Names**

Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor, Klf4, Ezf, Gklf, Zie

**Dilution**

WB~~1:1000  
FC~~1:25

**Target/Specificity**

This Mouse Klf4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 321-354 amino acids from the Central region of mouse Klf4.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

Mouse Klf4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Klf4 Antibody (Center) - Protein Information**

**Name** Klf4**Synonyms** Ezf, Gklf, Zie**Function**

Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence (PubMed: [10431239](http://www.uniprot.org/citations/10431239), PubMed: [10556311](http://www.uniprot.org/citations/10556311), PubMed: [15358627](http://www.uniprot.org/citations/15358627), PubMed: [16954384](http://www.uniprot.org/citations/16954384), PubMed: [17060454](http://www.uniprot.org/citations/17060454), PubMed: [19816951](http://www.uniprot.org/citations/19816951), PubMed: [20071344](http://www.uniprot.org/citations/20071344), PubMed: [29593216](http://www.uniprot.org/citations/29593216)). Binds to the promoter region of its own gene and can activate its own transcription (PubMed: [10431239](http://www.uniprot.org/citations/10431239), PubMed: [10556311](http://www.uniprot.org/citations/10556311), PubMed: [15358627](http://www.uniprot.org/citations/15358627), PubMed: [16954384](http://www.uniprot.org/citations/16954384), PubMed: [17060454](http://www.uniprot.org/citations/17060454), PubMed: [19816951](http://www.uniprot.org/citations/19816951), PubMed: [20071344](http://www.uniprot.org/citations/20071344), PubMed: [29593216](http://www.uniprot.org/citations/29593216)). Regulates the expression of key transcription factors during embryonic development (PubMed: [10431239](http://www.uniprot.org/citations/10431239), PubMed: [10556311](http://www.uniprot.org/citations/10556311), PubMed: [15358627](http://www.uniprot.org/citations/15358627), PubMed: [16954384](http://www.uniprot.org/citations/16954384), PubMed: [17060454](http://www.uniprot.org/citations/17060454), PubMed: [19816951](http://www.uniprot.org/citations/19816951), PubMed: [20071344](http://www.uniprot.org/citations/20071344), PubMed: [29593216](http://www.uniprot.org/citations/29593216)). Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation (PubMed: [10431239](http://www.uniprot.org/citations/10431239), PubMed: [10556311](http://www.uniprot.org/citations/10556311), PubMed: [15358627](http://www.uniprot.org/citations/15358627), PubMed: [16954384](http://www.uniprot.org/citations/16954384), PubMed: [17060454](http://www.uniprot.org/citations/17060454), PubMed: [19816951](http://www.uniprot.org/citations/19816951), PubMed: [20071344](http://www.uniprot.org/citations/20071344), PubMed: [29593216](http://www.uniprot.org/citations/29593216)). 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 (By similarity).

**Cellular Location**

Nucleus. Cytoplasm

**Tissue Location**

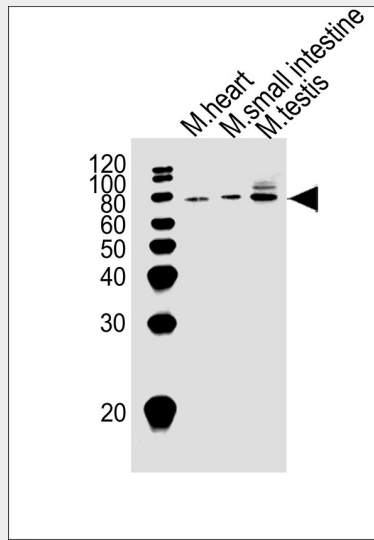
Highest expression in the colon. Lower levels in testis, lung and small intestine

**Mouse Klf4 Antibody (Center) - Protocols**

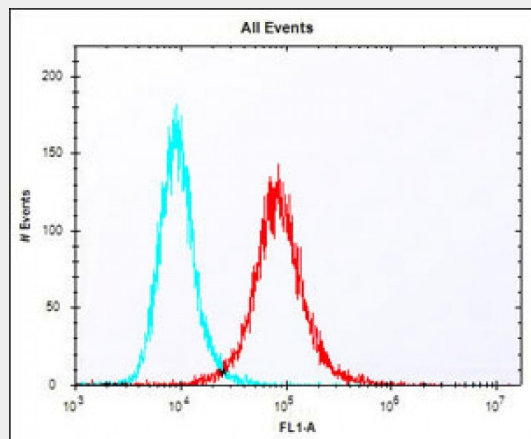
Provided below are standard protocols that you may find useful for product applications.

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

### Mouse Klf4 Antibody (Center) - Images



All lanes : Anti-Klf4 Antibody (Center) at 1:1000 dilution Lane 1: mouse heart lysates Lane 2: mouse small intestine lysates Lane 3: mouse testis lysates Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Overlay histogram showing NIH/3T3 cells stained with AW5431 (red line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5431, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 $\mu$ g/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

### Mouse Klf4 Antibody (Center) - Background

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 (By similarity).

#### **Mouse Klf4 Antibody (Center) - References**

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Garrett-Sinha L.A., et al. J. Biol. Chem. 271:31384-31390(1996).  
Mahatan C.S., et al. Nucleic Acids Res. 27:4562-4569(1999).  
Chen Z.-Y., et al. Exp. Cell Res. 281:19-27(2002).  
Carninci P., et al. Science 309:1559-1563(2005).