

Mouse Klf4 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21134a

Specification

Mouse Klf4 Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	Q60793
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	51880

Mouse Klf4 Antibody (Center) - Additional Information

Gene ID 16600

Other Names

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

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.

Dilution

WB~~1:1000

FC~~1:25

E~~Use at an assay dependent concentration.

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](#), PubMed:[10556311](#), PubMed:[15358627](#), PubMed:[16954384](#), PubMed:[17060454](#), PubMed:[19816951](#), PubMed:[20071344](#), PubMed:[29593216](#)). Binds to the promoter region of its own gene and can activate its own transcription (PubMed:[10431239](#), PubMed:[10556311](#), PubMed:[15358627](#), PubMed:[16954384](#), PubMed:[17060454](#), PubMed:[19816951](#), PubMed:[20071344](#), PubMed:[29593216](#)). Regulates the expression of key transcription factors during embryonic development (PubMed:[10431239](#), PubMed:[10556311](#), PubMed:[15358627](#), PubMed:[16954384](#), PubMed:[17060454](#), PubMed:[19816951](#), PubMed:[20071344](#), PubMed:[29593216](#)). Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation (PubMed:[10431239](#), PubMed:[10556311](#), PubMed:[15358627](#), PubMed:[16954384](#), PubMed:[17060454](#), PubMed:[19816951](#), PubMed:[20071344](#), PubMed:[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

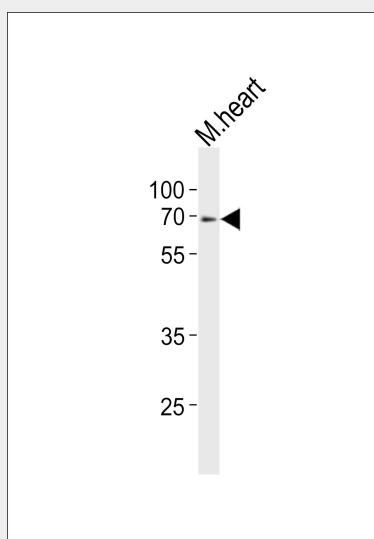
Highest expression in the colon. Lower levels in testis, lung and small intestine

Mouse Klf4 Antibody (Center) - Protocols

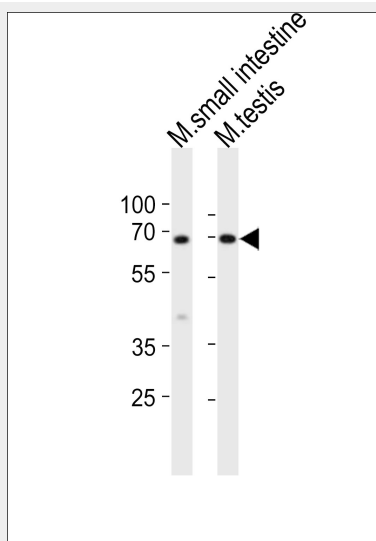
Provided below are standard protocols that you may find useful for product applications.

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

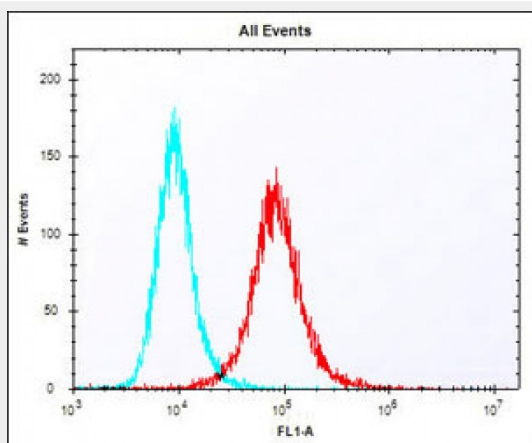
Mouse Klf4 Antibody (Center) - Images



Western blot analysis of lysate from mouse heart tissue lysate, using Klf4 Antibody (Center)(Cat. #AP21134a). AP21134a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



Western blot analysis of lysates from mouse small intestine, mouse testis tissue lysate (from left to right), using Klf4 Antibody (Center)(Cat. #AP21134a). AP21134a 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. Lysates at 20ug per lane.



Overlay histogram showing NIH/3T3 cells stained with AP21134a (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 (AP21134a, 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 (1µg/1x10⁶ 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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Mahatan C.S.,et al.Nucleic Acids Res. 27:4562-4569(1999).
Chen Z.-Y.,et al.Exp. Cell Res. 281:19-27(2002).
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