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Mouse Klf4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21583b

Product Information

Application	WB, E
Primary Accession	Q60793
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB51076
Calculated MW	51880

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 378-410 amino acids from the C-terminal region of Mouse 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 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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, PubMed:39986490). 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

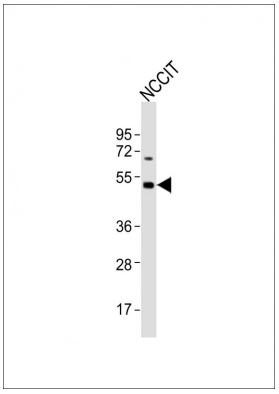
Background

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).

References

Shields J.M.,et al.J. Biol. Chem. 271:20009-20017(1996).
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).

Images



Anti-Klf4 Antibody (C-term)at 1:1000 dilution + NCCIT whole cell lysates Lysates/proteins at 20 µg 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.

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