10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KLF4 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52656

Product Information

Application	WB
Primary Accession	O43474
Reactivity	Transfected
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	54671

Additional Information

Gene ID	9314
Other Names	Endothelial Kruppel like zinc finger protein;Epithelial zinc finger protein EZF;EZF;GKLF;Gut-enriched krueppel-like factor;KLF;KLF4;KLF4_HUMAN;Krueppel-like factor 4;Kruppel like factor 4 (Epithelial zinc finger protein EZF) (Gut enriched Krueppel like factor);Kruppel like factor 4 (gut).
Dilution	WB~~1:1000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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}

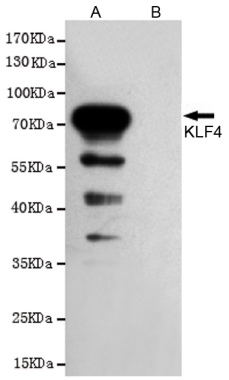
Background

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.

References

Yet S.-F.,et al.J. Biol. Chem. 273:1026-1031(1998).
Foster K.W.,et al.Cell Growth Differ. 10:423-434(1999).
Camacho-Vanegas O.,et al.FASEB J. 27:432-436(2013).
Garrett-Sinha L.A.,et al.Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Western blot analysis of extracts from CHO-K1 cells, transfected with pcDNA3.1-Hygro(+)-mKLF4-Flag construct (A) or transfected with pDNA3.1-Hygro(+)-Flag vector (B),using KLF4 mouse mAb (1:1000 diluted).Predicted band size:55/65KDa.Observed band size:55/65KDa.