

GKLF Mouse mAb

Catalog#: AM0308 | Size: 30µL/50µL/100µL

Main Information

Target	Host Species	Reactivity	Application	MW	Conjugated/Modification
GKLF	Mouse	Human	WB, IHC, IF, ELISA	55kD (Calculated)	Unmodified

Detailed Information

Recommended Dilution Ratio	WB 1:500-1:2000; IHC 1:200-1:1000; IF 1:200-1:1000; ELISA 1:10000; Not yet tested in other applications.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Specificity	GKLF Monoclonal Antibody detects endogenous levels of GKLF protein.
Purification	Affinity purification
Storage	-15°C to -25°C/1 year(Do not lower than -25°C)
MW(Calculated)	55kD
Modification	Unmodified
Clonality	Monoclonal

Antigen&Target Information

Immunogen	Purified recombinant fragment of human GKLF expressed in E. Coli.
Specificity	GKLF Monoclonal Antibody detects endogenous levels of GKLF protein.
Gene Name	KLF4
Protein Name	Krueppel-like factor 4
Other Name	KLF4 ;EZF ;GKLF ;Krueppel-like factor 4 ;Epithelial zinc finger protein EZF ;Gut-enriched krueppel-like factor



Database Link

Organism	Gene ID	SwissProt
Human	9314	O43474
Mouse		Q60793

Background

This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S transition of the cell cycle following DNA damage by mediating the tumor suppressor gene p53. Mice lacking this gene have a normal appearance but lose weight rapidly, and die shortly after birth due to fluid evaporation resulting from compromised epidermal barrier function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015].

Function

Function:Transcription factor which acts as both an activator and repressor. Binds the CACCC core sequence. Binds to multiple sites in the 5'-flanking region of its own gene and can activate its own transcription. 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.,similarity:Belongs to the krueppel C2H2-type zinc-finger protein family.,similarity:Contains 3 C2H2-type zinc fingers.,subunit:Interaction with the C-terminal domain of MUC1 enhances suppression of TP53/p53 transcription.

Cellular Localization

Nucleus.

Tissue Expression

Cervix,Lung,Placenta,Substantia nigra,Tongue

Research Areas

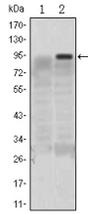
- Signaling pathways regulating pluripotency of stem cells
- Chemical carcinogenesis - receptor activation

Signaling Pathway

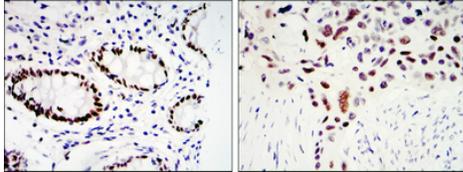
Cellular Processes >> Cellular community - eukaryotes >> Signaling pathways regulating pluripotency of stem cells



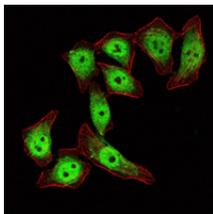
Validation Data



Western Blot analysis using GKLf Monoclonal Antibody against HEK293 (1) and KLF4-hlgGfc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded colon cancer tissues (left) and lung cancer tissues (right) with DAB staining using GKLf Monoclonal Antibody.



Immunofluorescence analysis of ECA109 cells using GKLf Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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