KLF4 (PT0167R) PT® Rabbit mAb

Catalog#: AM8101 | Size: 30μL/50μL/100μL

Main Information

Target	Host Species	Reactivity	Application	MW	Conjugated/Modification
KLF4	Mouse	Human, Mouse, Rat	WB, IHC, IF, IP, ELISA	55kD (Calculated) 60kD (Observed)	Unmodified

Detailed Information

Recommeded Dilution Ratio	IHC 1:200-1000; WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000; IP 1:50-200
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Specificity	Endogenous
Purification	Protein A
Storage	-15°C to -25°C/1 year(Do not lower than -25°C)
MW(Calculated)	55kD
MW(Observed)	60kD
Modification	Phospho
Clonality	Monoclonal
Clone Number	PT0167R
Isotype	IgG,Kappa

Antigen&Target Information

Specificity	Endogenous
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

Nuclear

Tissue Expression

Cervix,Lung,Placenta,Substantia nigra,Tongue

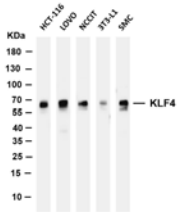
Research Areas

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

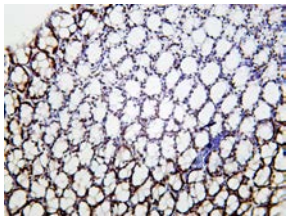
Signaling Pathway

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

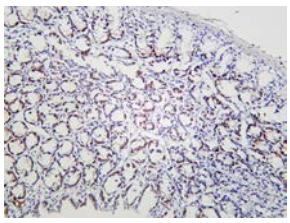
Validation Data



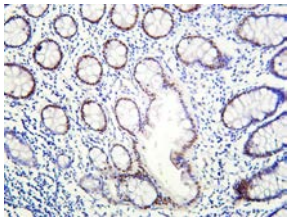
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-KLF4 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HCT-116 Lane 2: LOVO Lane 3: NCCIT Lane 4: 3T3-L1 Lane 5: SMC Predicted band size: 55kDa Observed band size: 60kDa



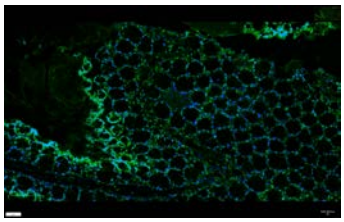
Mouse colon was stained with Anti-KLF4 rabbit antibody



Rat colon was stained with Anti-KLF4 rabbit antibody



Human colon was stained with Anti-KLF4 rabbit antibody



mouse colon was stained with Anti-KLF4 rabbit antibody

Contact Information

+886-32876194 www.acebiolab.com Order: order@acebiolab.com Support: service@acebiolab.com
RM. 7, 13F., NO. 268, SEC. 1, GAOTIEZHANQIAN W. RD., ZHONGLI DIST., TAOYUAN CITY 320016 , TAIWAN (R.O.C.)