Product Name: KD-Validated KLF4 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01684
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 54.7kDa

Antigen Information

Gene Name	KLF4
Alternative Names	KLF Transcription Factor 4; GKLF; EZF; Epithelial Zinc Finger Protein EZF; Gut-Enriched Krueppel-Like Factor; Kruppel-Like Factor 4 (Gut); Gut Kruppel-Like Factor; Krueppel-Like Factor 4; Kruppel Like Factor 4; Endothelial Kruppel-Like Zinc Finger Protein
Gene ID	9314.0
SwissProt ID	O43474
Immunogen	A synthesized peptide derived from human KLF4

Background

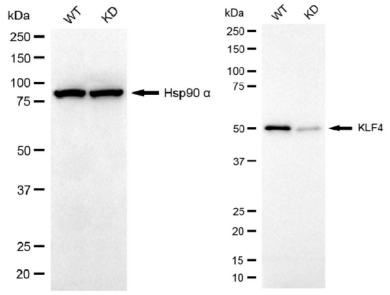
This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S

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]

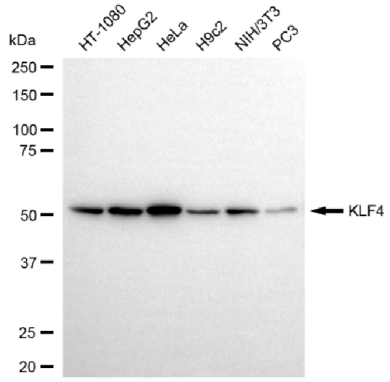
Research Area

Epigenetics and Nuclear Signaling,Stem Cells,Cancer,Cardiovascular,Developmental Biology

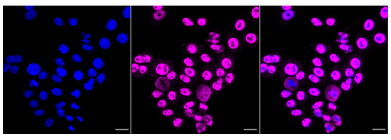
Image Data



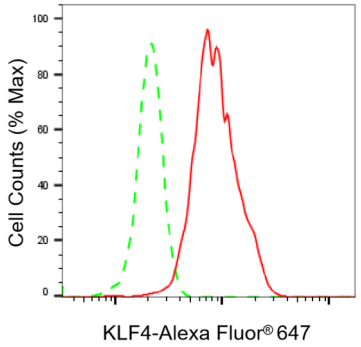
Western blotting analysis using KLF4 antibody (KVAb01684). KLF4 expression in wild type (WT) and KLF4 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with KLF4 antibody (KVAb01684, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using KLF4 antibody (KVAb01684). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with KLF4 antibody (KVAb01684, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with KLF4 antibody (KVAb01684, 1:1,000). Nuclei were stained blue with DAPI; KLF4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of KLF4 expression in HepG2 cells using KLF4 antibody (KVAb01684, 1:2,000). Green, isotype control; red, KLF4.