

KLF4 (PT0167R) PT® Rabbit mAb

Catalog No :	YM8101
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	KLF4
Fields :	>>Signaling pathways regulating pluripotency of stem cells;>>Chemical carcinogenesis - receptor activation
Gene Name :	KLF4
Protein Name :	Krueppel-like factor 4
Human Gene Id :	9314
Human Swiss Prot No :	O43474
Mouse Swiss Prot No :	Q60793
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1000,WB 1:1000-5000,IF 1:200-1000,ELISA 1:5000-20000,IP 1:50-200
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	55kD
Observed Band :	60kD

P References :

1. Mol Cell Proteomics. 2008 Mar;7(3):499-508.
2. J Cancer Res Clin Oncol. 2008 Aug;134(8):891-8.

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.,

Subcellular

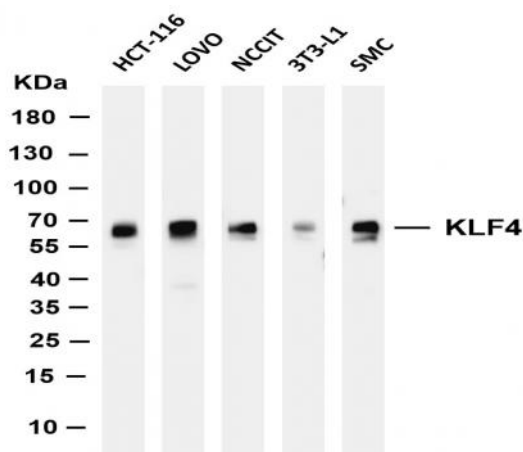
Nuclear

Location :

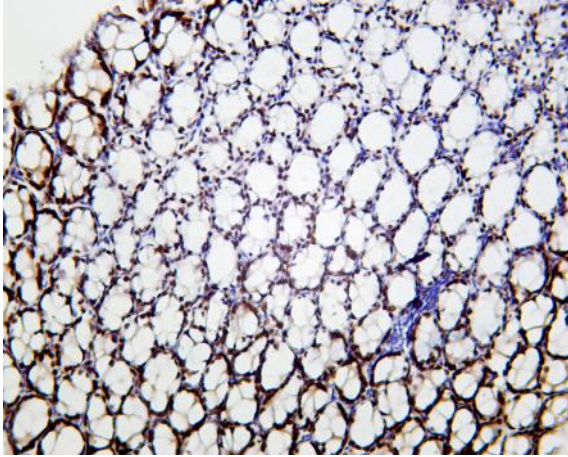
Expression :

Cervix,Lung,Placenta,Substantia nigra,Tongue,

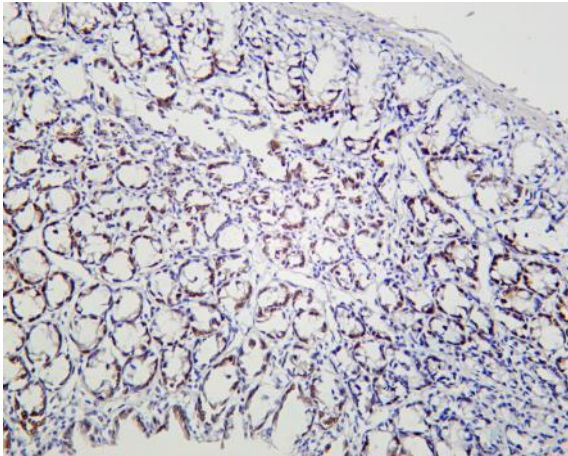
Products Images



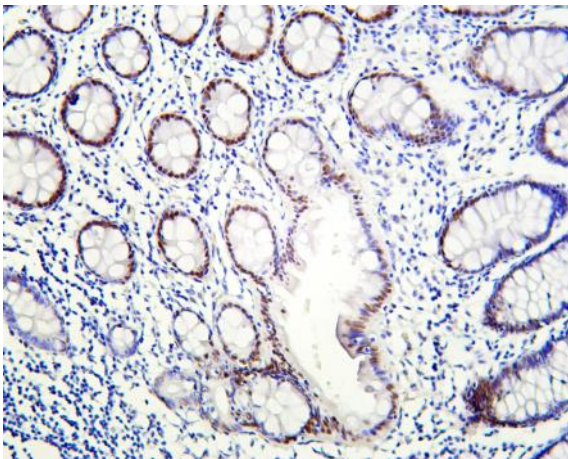
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-KLF4 (PT0167R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HCT-116 Lane 2: LOVO Lane 3: NCCIT Lane 4: 3T3-L1 Lane 5: SMC Predicted band size: 55kDa Observed band size: 60kDa



Mouse colon was stained with Anti-KLF4 (PT0167R) rabbit antibody



Rat colon was stained with Anti-KLF4 (PT0167R) rabbit antibody



Human colon was stained with Anti-KLF4 (PT0167R) rabbit antibody