

KLF4 Rabbit pAb

Catalog Number: bs-1064R

Target Protein: KLF4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:50-200), IHC-F (1:50-200), IF (1:50-200), Flow-Cyt (1ug/Test), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

Predicted MW: 56 kDa

Entrez Gene: 9314

Swiss Prot: O43474

Source: KLH conjugated synthetic peptide derived from human KLF4: 415-513/513.

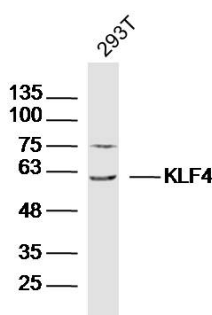
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

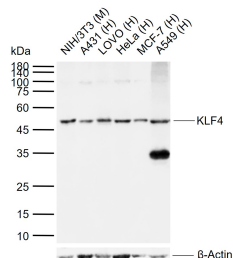
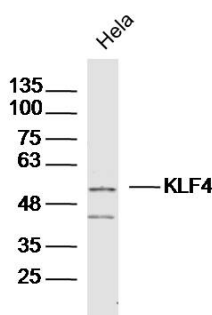
Background: KLF4 is a transcription factor that works with Sp1 to activate the Laminin gamma1 chain gene. It binds the CACCC core sequence. KLF4 may be involved in the differentiation of epithelial cells and may also function in the development of the skeleton and kidney. KLF4 also has roles as both an oncogene and a tumor suppressor.

VALIDATION IMAGES

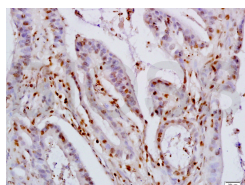


Sample: 293T (human) Cell Lysate at 40 ug Primary: Anti- KLF4 (bs-1064R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 60 kD

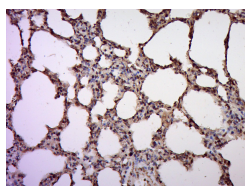
Sample: HeLa Cell(Human)Lysate at 30 ug Primary: Anti- KLF4 (bs-1064R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56kD Observed band size: 56kD



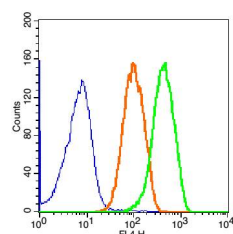
Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Human A431 cell lysates Lane 3: Human LOVO cell lysates Lane 4: Human HeLa cell lysates Lane 5: Human MCF-7 cell lysates Lane 6: Human A549 cell lysates Primary: Anti-KLF4 (bs-1064R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 50 kDa



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-KLF4 Polyclonal Antibody, Unconjugated(bs-1064R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLF4) Polyclonal Antibody, Unconjugated (bs-1064R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control: MCF7(blue). Primary Antibody: Rabbit Anti-KLF4 AF647 Conjugated antibody (bs-1064R-AF647), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF647(orange), used under the same conditions. Protocol The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. The cells were washed twice with 1 X PBS. The cells were incubated in 1 X PBS containing 0.5% BSA + 1.0% goat serum (15 min) to block non-specific protein-protein interactions followed by the incubated with antibody (bs-1064R-AF647, 1µg /1x10⁶ cells) for 30 min on ice. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.525] Ma Manting. et al. LncRNA-TBP mediates TATA-binding protein recruitment to regulate myogenesis and induce slow-twitch myofibers. CELL COMMUN SIGNAL. 2023 Dec;21(1):1-16 WB ; Chicken . 36635672

[IF=6.656] Dong-qin Xu. et al. Pentoxifylline attenuates nonalcoholic fatty liver by inhibiting hepatic macrophage polarization to the M1 phenotype. PHYTOMEDICINE. 2022 Aug;154368 FCM ; Mouse . 35994850

[IF=6.639] Wataru Nakajima. et al. Epigenetic Priming with Decitabine Augments the Therapeutic Effect of Cisplatin on Triple-Negative Breast Cancer Cells through Induction of Proapoptotic Factor NOXA. Cancers. 2022 Jan;14(1):248 WB ; Human . 35008411

[IF=6.208] Ling Ding. et al. Bufalin Inhibits Tumorigenesis, Stemness, and Epithelial–Mesenchymal Transition in Colorectal Cancer through a C-Kit/Slug Signaling Axis. INT J MOL SCI. 2022 Jan;23(21):13354 WB ; Human . 36362141

[IF=5.81] Yuqiao Yang. et al. Oxytocin Protects Against Isoproterenol-Induced Cardiac Hypertrophy by Inhibiting PI3K/AKT Pathway via a

