

bsm-52850R**[Primary Antibody]**

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KLF4 Recombinant Rabbit mAb

DATASHEET

Host: Rabbit**Clonality:** Recombinant**GeneID:** 9314**Target:** KLF4**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

Storage: Size : 25ul/50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
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.

Isotype: IgG**CloneNo.:** 6C5**SWISS:** O43474

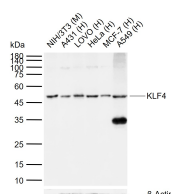
Applications: WB (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

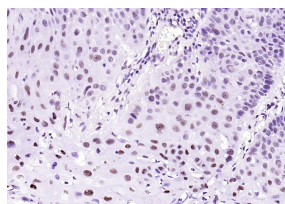
Predicted
MW.: 56 kDa

Subcellular
Location: Nucleus

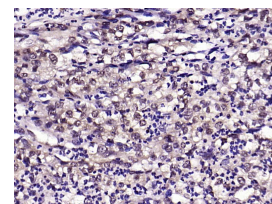
VALIDATION IMAGES



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 (bsm-52850R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 50 kDa



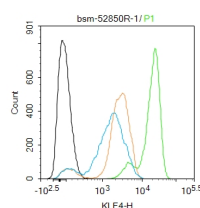
Paraformaldehyde-fixed, paraffin embedded (human laryngeal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLF4) Monoclonal Antibody, Unconjugated (bsm-52850R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human endometrial carcinoma); 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) Monoclonal Antibody, Unconjugated (bsm-52850R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



HeLa cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (KLF4) monoclonal Antibody, Unconjugated (bsm-52850R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue,



Blank control: K562. Primary Antibody (green line): Rabbit Anti-KLF4 antibody (bsm-52850R) Dilution: 1μg / 10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5μg / test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for

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C02-04002) was used to stain the cell nuclei.

20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=4.167]** Zheng Wang. et al. MYOD1 inhibits avian adipocyte differentiation via miRNA-206/ KLF4 axis. J Anim Sci Biotechnol. 2021 Dec;12(1):1-13 WB ;Chicken. 33952351