

Datasheet for ABIN6243711
anti-KLF4 antibody (AA 321-354)



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3 Images

Overview

Quantity:	400 µL
Target:	KLF4
Binding Specificity:	AA 321-354
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KLF4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	This Mouse Klf4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 321-354 amino acids from the Central region of mouse Klf4.
Clone:	RB50946
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	KLF4
Alternative Name:	Klf4 (KLF4 Products)
Background:	Transcription factor, can act both as activator and as repressor. Binds the 5'-CACCC-3' core

Target Details

sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. 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. Contributes to the down-regulation of p53/TP53 transcription (By similarity).

Molecular Weight: 51880

UniProt: [Q60793](#)

Pathways: [Peptide Hormone Metabolism, Stem Cell Maintenance](#)

Application Details

Application Notes: WB: 1:1000. WB: 1:1000. FC: 1:25

Restrictions: For Research Use only

Handling

Format: Liquid

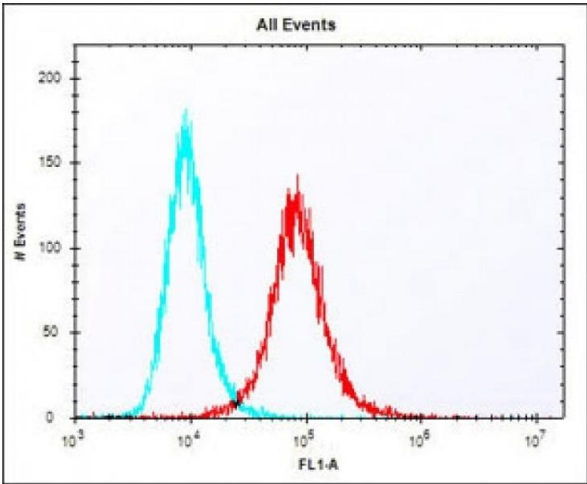
Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

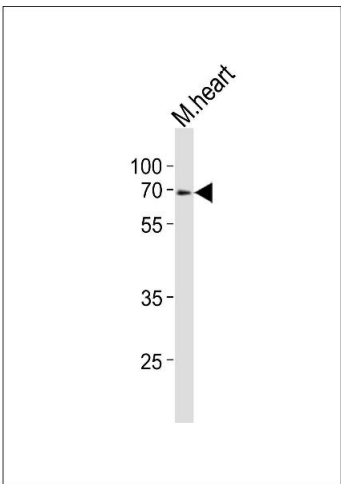
Storage: 4 °C,-20 °C

Expiry Date: 6 months



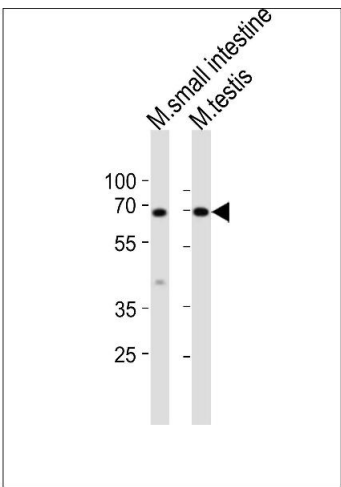
Flow Cytometry

Image 1. Overlay histogram showing NIH/3T3 cells stained with (ABIN6243711 and ABIN6577901) (red line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then incubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN6243711 and ABIN6577901), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Western Blotting

Image 2. Western blot analysis of lysate from mouse heart tissue lysate, using Klf4 Antibody (Center) (ABIN6243711 and ABIN6577901). (ABIN6243711 and ABIN6577901) was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20 µg.



Western Blotting

Image 3. Western blot analysis of lysates from mouse small intestine, mouse testis tissue lysate (from left to right), using Klf4 Antibody (Center) (ABIN6243711 and ABIN6577901). (ABIN6243711 and ABIN6577901) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.