Leader in Biomolecular Solutions for Life Science

www.abclonal.com

# KLF4 Rabbit mAb

## Catalog No.: A13673

Recombinant | 21 Publications

## Basic Information

**Observed MW**
55 kDa

**Calculated MW**
55 kDa

**Category**
Monoclonal Antibodies

**Applications**
WB, IP, IF-F, IHC-P, ELISA

**Cross Reactivity**
Human, Mouse, Rat

**Clone No.**
ARC0721

## 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.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:3000 - 1:10000 |
| **IP** | 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| **IF-F** | 1:200 - 1:400 |
| **IHC-P** | 1:200 - 1:800 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
9314

**Swiss-Prot**
O43474

**Immunogen**
A synthetic peptide corresponding to a sequence within amino acids 300-400 of human KLF4 (O43474).

**Synonyms**
EZF; GKLF; KLF4


## Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn


## Product Information

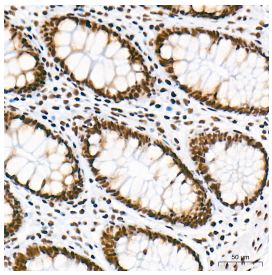
**Source**
Rabbit

**Isotype**
IgG

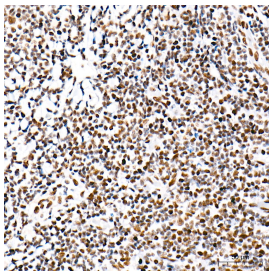
**Purity**
Affinity purification

**Storage**
Store at -20℃

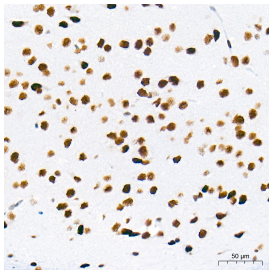
## Validation Data



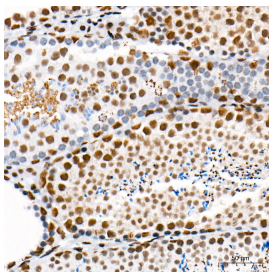
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using KLF4 Rabbit mAb (A13673) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



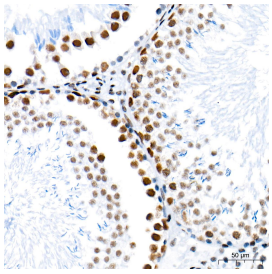
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using KLF4 Rabbit mAb (A13673) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



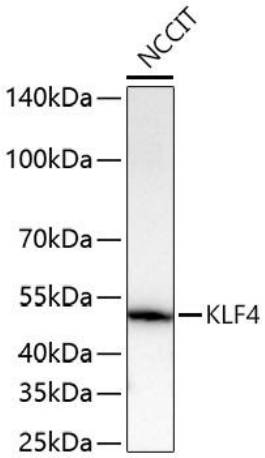
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using KLF4 Rabbit mAb (A13673) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



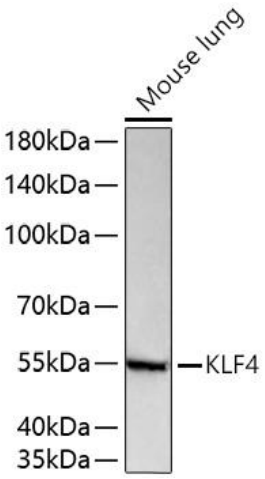
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using KLF4 Rabbit mAb (A13673) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



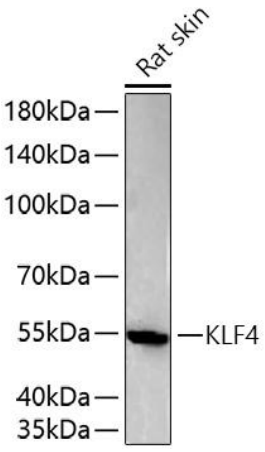
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using KLF4 Rabbit mAb (A13673) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



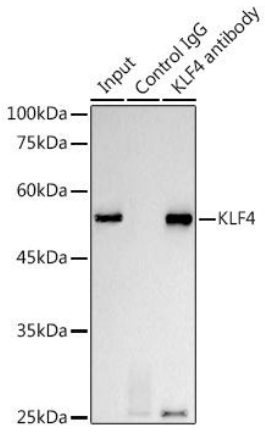

Western blot analysis of lysates from NCCIT cells using KLF4 Rabbit mAb (A13673) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.




Western blot analysis of lysates from Mouse lung using KLF4 Rabbit mAb (A13673) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.



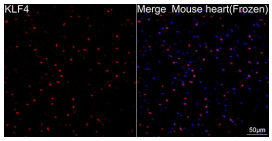

Western blot analysis of lysates from Rat skin using KLF4 Rabbit mAb (A13673) at 1: 5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.




Immunoprecipitation analysis of 300 µg extracts from HeLa cells using 3 µg KLF4 Rabbit mAb (A13673). Western blot was performed from the immunoprecipitate using KLF4 Rabbit mAb (A13673) at a dilution of 1:1000.



For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.




Confocal imaging of frozen sections of Mouse heart tissue using KLF4 Rabbit mAb (A13673, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.