For Research Use Only

KLF4 Polyclonal antibody

Catalog Number: 11880-1-AP

Featured Product

113 Publications

GenBank Accession Number:



Basic Information

Catalog Number: 11880-1-AP Size:

500 µg/ml Source: Rabbit Isotype:

gG Kruppel-like factor 4 (gut)

Immunogen Catalog Number:Calculated MW:AG2480504 aa, 54 kDaObserved MW:

50-60 kDa

BC030811

9314

043474

GeneID (NCBI):

UNIPROT ID:

Full Name:

Purification Method:

Antigen affinity purification

Recommended Dilutions: WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:50-1:500 IF 1:20-1:200

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

Cited Applications: chIP, FC, IF, IHC, IP, WB

Species Specificity: human, mouse, rat

Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: A431 cells, A549 cells, HUVEC cells, NCCIT cells, HEK-293 cells, HT-29 cells, C2C12 cells, HT-1080 cells, HeLa cells, mouse liver tissue, mouse lung tissue

IP: HeLa cells.

IHC: mouse embryo tissue, human tonsil tissue, human spleen tissue, human colon tissue

IF: human embronic stem cells,

Background Information

The mammalian Krüppel-like transcription factor 4 (Klf4) is an evolutionarily conserved zinc finger-containing transcription factor with diverse regulatory functions in cell growth, proliferation, differentiation and embryogenesis. It also plays a significant role in the process of tumorigenesis. Klf4 is one of the key transcription factors that have been used to reprogram mouse and human fibroblasts to a pluripotent state also called induced pluripotent stem (iPS) cells. Affinity purified rabbit anti- Klf4 is for the detection of Klf4 transgene expression in the process of reprogramming. There are two isoforms of KLF4 (PMID: 15561714), with MW range from 50 to 60 kDa, and major band is 55 kDa. KLF4 protein can be ubiquitin modified.

Notable Publications

Author	Pubmed ID	Journal	Application
Martin Degen	33117810	Front Cell Dev Biol	WB
Shuang Li	30269953	Stem Cell Reports	WB
Xinjian Zhang	28888043	J Cell Biochem	WB,IF

Storage

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

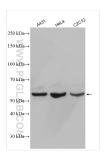
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

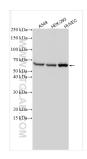
W: ptgcn.co

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

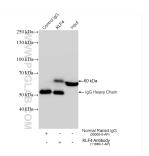
Selected Validation Data



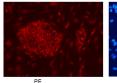
Various lysates were subjected to SDS PAGE followed by western blot with 11880-1-AP (KLF4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

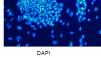


Various lysates were subjected to SDS PAGE followed by western blot with 11880-1-AP (KLF4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



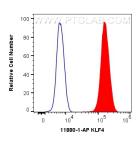
IP result of anti-KLF4 (IP:11880-1-AP, 4ug; Detection:11880-1-AP 1:8000) with HeLa cells lysate 1320 ug.



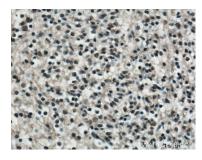


Confocal immunofluorescent analysis of human embronic stem cells with 11880-1-AP at dilution of 1:50. The PE shows staining with 11880-1-AP/PE. The DAPI shows nuclear staining by DAPI.

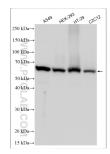
Confocal immunofluorescent analysis of human embronic stem cells with 11880-1-AP at dilution of 1:50. The PE shows staining with 11880-1-AP/PE. The DAPI shows nuclear staining by DAPI.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human KLF4 (11880-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffinembedded mouse embryo tissue slide using 11880-1-AP (KLF 4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 11880-1-AP (KLF4 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.