

KLF4 Polyclonal Antibody

Catalog number: 11880-1-AP

Size: 61 µg/150 µl

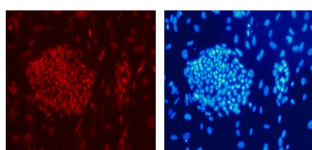
Source: Rabbit

Isotype: IgG

Synonyms:

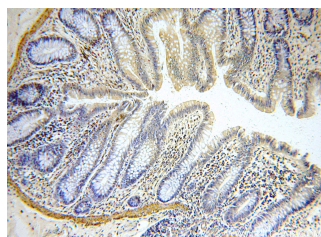
KLF4; EZF, GKLF, KLF4,

Krueppel like factor 4, Kruppel like factor 4 (gut)

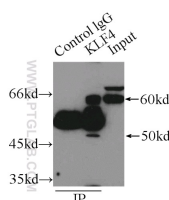


PE DAPI
Confocal immunofluorescent analysis of human embryonic stem cells with 11880-1-AP at dilution of 1:50. The PE shows staining with 11880-1-AP/PE. The DAPI shows nuclear staining by DAPI.

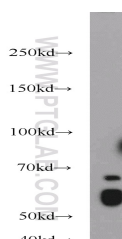
Confocal immunofluorescent analysis of human embryonic stem cells with 11880-1-AP at dilution of 1:50. The PE shows staining with 11880-1-AP/PE. The DAPI shows nuclear staining by DAPI.



Immunohistochemical of paraffin-embedded human colon using 11880-1-AP(KLF4 antibody) at dilution of 1:50 (under 10x lens)



IP Result of anti-KLF4 (IP:11880-1-AP, 3ug; Detection:11880-1-AP 1:500) with HeLa cells lysate 4650ug.



Background

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 60kDa, and major band is 55kDa.

Applications

Tested applications:	ELISA, IHC, IP, IF, WB
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse
Calculated KLF4 MW:	504aa, 54 kDa
Observed KLF4 MW:	50-60 kDa
Positive WB detected in	HeLa cells, A431 cells, HT-1080 cells, mouse testis tissue, NIH/3T3 cells, RAW264.7 cells
Positive IP detected in	HeLa cells
Positive IHC detected in	Human colon tissue, human spleen tissue, human tonsil tissue
Positive IF detected in	Human embryonic stem cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2480
GenBank accession number:	BC030811
Gene ID (NCBI):	9314
Full name:	Kruppel-like factor 4 (gut)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

HeLa cells were subjected to
SDS PAGE followed by
western blot with 11880-1-
AP(KLF4 antibody) at dilution
of 1:1000