KLF4 Polyclonal ANTIBODY
Catalog Number: 11880-1-AP

Basic Information
- Catalog Number: 11880-1-AP
- GenBank Accession Number: BC030811
- GenetID (NCBI): 9314
- Full Name: Kruppel-like factor 4 (gut)
- Calculated MW: 504aa, 54 kDa
- Observed MW: 50-60 kDa

Applications
- Tested Applications: IF, IHC, IP, WB, ELISA
- Cited Applications: chIP, IF, IHC, IP, WB
- Species Specificity: human, mouse, rat
- Cited Species: human, mouse, rat

Positive Controls:
- WB: A431 cells; HeLa cells, HT-1080 cells, NCCIT cell
- IP: Hela cells;
- IHC: mouse embryo tissue; human tonsil tissue, human spleen tissue, human colon tissue
- IF: human embryonic stem cells;

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

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.

Notable Publications

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<td>Shuang Li</td>
<td>30269953</td>
<td>Stem Cell Reports</td>
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<td>Xinjian Zhang</td>
<td>28888043</td>
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<td>Xiaoming Zhang</td>
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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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptg lab.com
W: ptg lab.com

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

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

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.

A431 cells were subjected to SDS PAGE followed by western blot with 11880-1-AP (KLF4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11880-1-AP (KLF4 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).