KLF4
Polyclonal ANTIBODY
Catalog Number: 11880-1-AP

Basic Information
Catalog Number: 11880-1-AP
Size: 61 μg/150 μl
Source: Rabbit
IgG
Affinity Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG2480
GenBank Accession Number: BC030811
GeneID (NCBI): 9314
Full Name: Kruppel-like factor 4 (gut)
Calculated MW: 504 aa, 54 kDa
Observed MW: 50-60 kDa

Recommended Dilutions:
WB: 1:500-1:2000
IP: 0.5-4.0 μg for IP and 1:100-1:1000 for WB
IHC: 1:300-1:500
IF: 1:25-1:200

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

Note: 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.

There are two isoforms of KLF4 [PMID:15561714], with MW range from 50 to 60kDa and major band is 55kDa.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PMID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shuang Li</td>
<td>30269553</td>
<td>Stem Cell Reports</td>
<td>WB</td>
</tr>
<tr>
<td>Xinjian Zhang</td>
<td>26983043</td>
<td>J Cell Biochem</td>
<td>WB, IF</td>
</tr>
<tr>
<td>Xuming Zhang</td>
<td>24138902</td>
<td>Cell Rep</td>
<td>WB</td>
</tr>
</tbody>
</table>

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 (312) 455-8498 outside USA
E: proteintech@ptglab.com
W: ptglab.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 1:20. 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)

Immunohistochemistry 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 (pH 8.0).