SOX2 Polyclonal antibody
Catalog Number: 11064-1-AP

Basic Information
Catalog Number: 11064-1-AP
Size: 150μl, Concentration: 600 μg/ml by Nanodrop
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG1530

GenBank Accession Number: BC013923
GeneID (NCBI): 6657
Full Name: SRY (sex determining region Y)-box 2
Calculated MW: 34 kDa
Observed MW: 34-40 kDa

Purification Method: Antigen affinity purification
Recommended Dilutions:
  - WB: 1:500-1:1000
  - IHC: 1:50-1:200
  - IF: 1:50-1:500

Applications
Tested Applications:
- IF, IHC, WB, ELISA
Cited Applications:
- FC, IF, IHC, IP, WB
Species Specificity:
- human, mouse, rat, zebrafish
Cited Species:
- human, goat, rat, mouse, pig

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
Sox2, also known as SRY (sex determining region Y)-box 2, is a transcription factor essential for maintaining self-renewal of undifferentiated ES cells and is one of the key transcription factors used to reprogram mouse and human fibroblasts to a pluripotent state. Sox2 expressed in undifferentiated pluripotent stem cells and germ cells during development. Affinity purified rabbit anti-Sox2 antibody can be used to demonstrate pluripotency of ES and iPSCs. This antibody is a rabbit polyclonal antibody raised against an internal region of human SOX2.

Notable Publications

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<th>Author</th>
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<tr>
<td>Yang Liu</td>
<td>27685621</td>
<td>Cell Death Dis</td>
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<td>Yuanxin Zhai</td>
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<td>Chenlong Li</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@ptglab.com
W: ptglab.com

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*** 20ul sizes contain 0.1% BSA
Selected Validation Data

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 11064-1-AP (SOX2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

IF result of SOX2 antibody (11064-1-AP, 1:300) with 1% PLP fixed adult mouse olfactory epithelium. (Red:CK14; Green: SOX2; Blue: DAPI). By Brian Lin, Tufts University.

HEK-293 cells were subjected to SDS PAGE followed by western blot with 11064-1-AP (SOX2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

IF result of anti-SOX2 (11064-1-AP) in Zebrafish by Dr. Caroline Parkin.

IF result of anti-SOX2 (11064-1-AP) with the midbrain of zebrafish by Dr. Caroline.

Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11064-1-AP (SOX2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11064-1-AP (SOX2 Antibody) at dilution of 1:200 (under 40x lens).

Immunofluorescent analysis of (4% PFA) fixed mouse embryo tissue using 11064-1-AP (SOX2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 11064-1-AP (SOX2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11064-1-AP (SOX2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).