

For Research Use Only

# SOX2 Polyclonal antibody

Catalog Number: 20118-1-AP

Featured Product

19 Publications



## Basic Information

<b>Catalog Number:</b> 20118-1-AP	<b>GenBank Accession Number:</b> BC013923	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6657	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500 IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P48431	
<b>Isotype:</b> IgG	<b>Full Name:</b> SRY (sex determining region Y)-box 2	
<b>Immunogen Catalog Number:</b> AG13635	<b>Calculated MW:</b> 34 kDa	
	<b>Observed MW:</b> 34-40 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, chicken

**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** : mouse brain tissue, Transfected HEK-293 cells, mouse embryo tissue, rat brain tissue

**IHC** : human lung squamous cell carcinoma tissue, mouse brain tissue

**IF-P** : mouse brain tissue, mouse embryo tissue

## 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 iPS cells. This antibody is a rabbit polyclonal antibody raised against an internal region of human SOX2. A rare undifferentiated cell population that is intermingled with the Bergmann glia of the adult murine cerebellar cortex, expresses the stem cell markers Sox2 and Nestin, and lacks markers of glial or neuronal differentiation. Sox2-expressing neural stem cells in the subgranular zone (SGZ), a well-known stem cell niche of the adult brain.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jun Zhang	36075559	Cell Signal	IHC
Eveljn Scarian	35628156	Int J Mol Sci	IF
Linna Zhang	33986860	Exp Ther Med	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

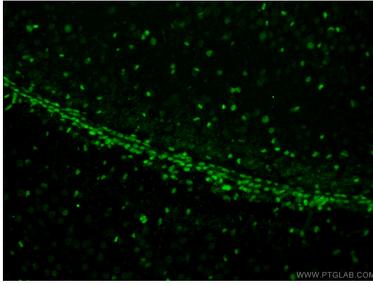
For technical support and original validation data for this product please contact:

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

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

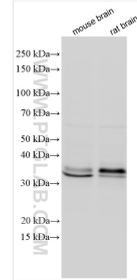
## Selected Validation Data



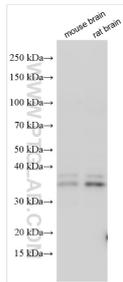
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 20118-1-AP (SOX2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



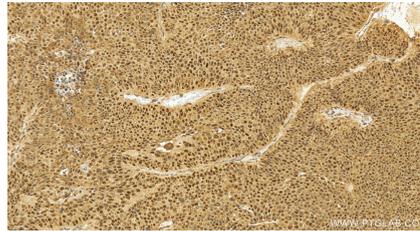
mouse brain tissue were subjected to SDS PAGE followed by western blot with 20118-1-AP (SOX2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 20118-1-AP (SOX2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 20118-1-AP (SOX2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung squamous cell carcinoma tissue slide using 20118-1-AP (SOX2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).