

For Research Use Only

# SOX2 Monoclonal antibody

Catalog Number: 66411-1-Ig

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 66411-1-Ig	<b>GenBank Accession Number:</b> BC013923	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6657	<b>CloneNo.:</b> 4B9B10
<b>Source:</b> Mouse	<b>Full Name:</b> SRY (sex determining region Y)-box 2	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IHC 1:50-1:500 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 34 kDa	
<b>Immunogen Catalog Number:</b> AG13635	<b>Observed MW:</b> 34-40 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, pig, mouse, rat

### Cited Species:

human, mouse

**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:** U-251 cells, HEK-293 cells, MCF-7 cells, pig brain tissue, fetal human brain tissue

**IHC:** human lung cancer tissue, mouse brain tissue, mouse embryo tissue

**IF:** mouse embryo tissue, mouse brain tissue, U-251 cells

## 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. This antibody is raised against an internal region of human SOX2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shuai Yu	34616727	Front Cell Dev Biol	WB
Xin Wang	34688658	J Biol Chem	WB
Xinbao Zhang	34601500	Cell Death Discov	IF

## 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

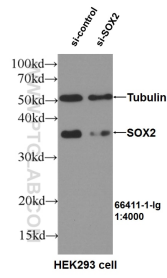
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

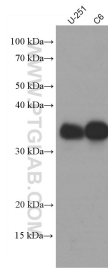
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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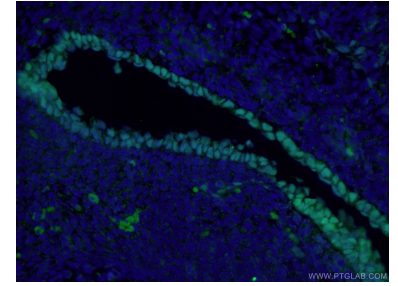
## Selected Validation Data



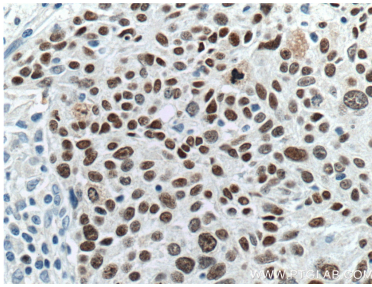
WB result of SOX2 antibody (66411-1-Ig, 1:4000) with si-Control and si-SOX2 transfected HEK293 cells..



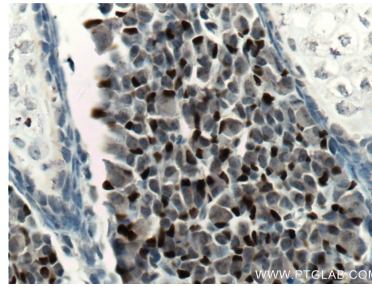
Various lysates were subjected to SDS PAGE followed by western blot with 66411-1-Ig (SOX2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse embryo tissue using 66411-1-Ig (SOX2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66411-1-Ig (SOX2 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 66411-1-Ig (SOX2 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).