

For Research Use Only

# CoraLite®594-conjugated SOX2 Monoclonal antibody

Catalog Number:CL594-66411

Featured Product



## Basic Information

<b>Catalog Number:</b> CL594-66411	<b>GenBank Accession Number:</b> BC013923	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6657	<b>CloneNo.:</b> 4B9B10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P48431	<b>Recommended Dilutions:</b> IF-P 1:50-1:500 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> SRY (sex determining region Y)-box 2	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG13635	<b>Calculated MW:</b> 34 kDa	
	<b>Observed MW:</b> 34-40 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IF-P, FC (Intra)	<b>Positive Controls:</b> IF-P : mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> 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. And the antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

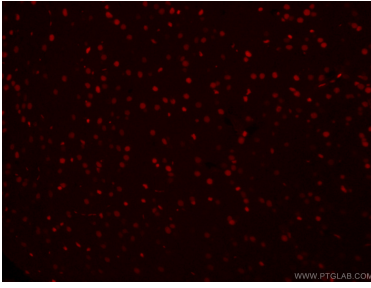
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

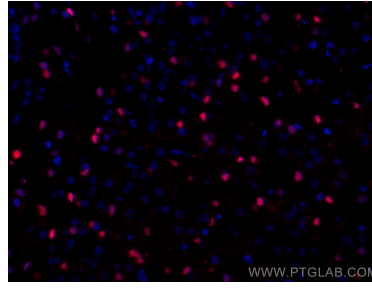
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

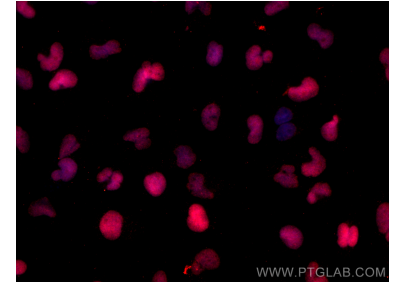
## Selected Validation Data



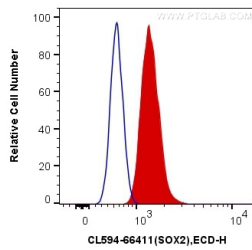
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-66411 (SOX2 antibody) at dilution of 1:50.



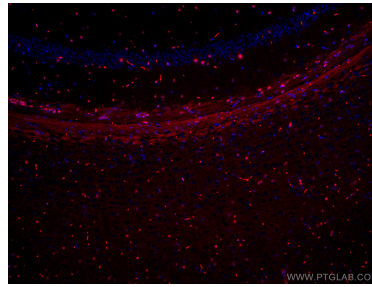
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using CoraLite@594 SOX2 antibody (CL594-66411, Clone: 4B9B10) at dilution of 1:400.



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using CoraLite@594 SOX2 antibody (CL594-66411, Clone: 4B9B10) at dilution of 1:200.



1X10<sup>6</sup> U-251 cells were intracellularly stained with 0.2 ug CoraLite@594 Anti-Human SOX2 (CL594-66411, Clone:4B9B10) (red), or 0.2 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite@594 SOX2 antibody (CL594-66411, Clone: 4B9B10) at dilution of 1:200. DAPI (blue).