

For Research Use Only

# CoraLite® Plus 488-conjugated SOX2 Recombinant antibody

Catalog Number:CL488-83059-5



## Basic Information

<b>Catalog Number:</b> CL488-83059-5	<b>GenBank Accession Number:</b> BC013923	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6657	<b>CloneNo.:</b> 230225G1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P48431	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> SRY (sex determining region Y)-box 2	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG0612	<b>Calculated MW:</b> 34 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : U-251 cells,
<b>Species Specificity:</b> human	

## 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.

## 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

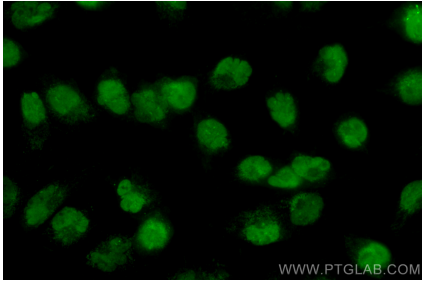
For technical support and original validation data for this product please contact:

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

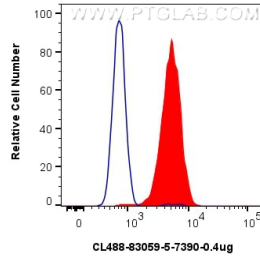
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**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 U-251 cells using CoraLite® Plus 488 SOX2 antibody (CL488-83059-5, Clone: 230225G1) at dilution of 1:200.



1x10<sup>6</sup> NCCIT cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated SOX2 Recombinant antibody (CL488-83059-5, Clone:230225G1)(red), or 0.4 ug CoraLite® Plus 488 Rabbit IgG Isotype Control RecAb (CL488-98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).