

For Research Use Only

# SOX10 Monoclonal antibody

Catalog Number: 66786-1-Ig **12 Publications**



## Basic Information

<b>Catalog Number:</b> 66786-1-Ig	<b>GenBank Accession Number:</b> BC002824	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 2000 ug/ml	<b>GeneID (NCBI):</b> 6663	<b>CloneNo.:</b> 1D2C8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P56693	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:300-1:1200 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> SRY (sex determining region Y)-box 10	
<b>Immunogen Catalog Number:</b> AG23191	<b>Calculated MW:</b> 50 kDa	
	<b>Observed MW:</b> 55-60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, FC (Intra), ELISA	<b>Positive Controls:</b> WB : A375 cells, IHC : human malignant melanoma tissue, mouse brain tissue, rat cerebellum tissue IF-P : rat brain tissue, mouse brain tissue
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat, rabbit, chicken	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Sox10 is a transcription factor that has a crucial role in complex signalling pathways regulating central nervous system and neural crest development. The calculated molecular weight of SOX10 is 50 kDa, but modified SOX10 is about 55-60 kDa. (PMID: 23799842)

## Notable Publications

Author	Pubmed ID	Journal	Application
Subrajaa Manohar	33192560	Front Physiol	IF
Sonia Taïb	35019839	ELife	IF
Kate S Heffernan	35202614	J Neurosci Methods	IF

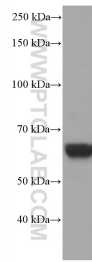
## Storage

**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

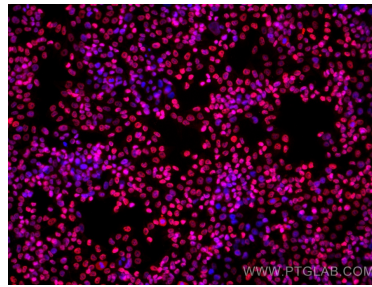
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

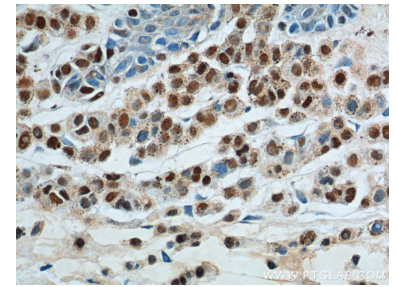
## Selected Validation Data



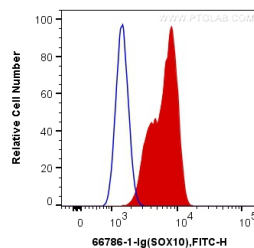
A375 cells were subjected to SDS PAGE followed by western blot with 66786-1-Ig (SOX10 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



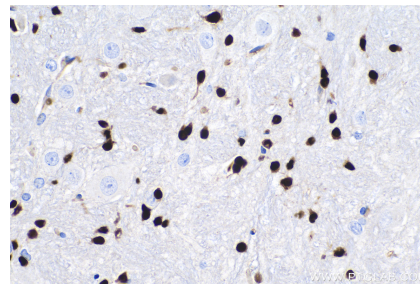
Immunofluorescent analysis of (4% PFA) fixed A375 cells using SOX10 antibody (66786-1-Ig, Clone: 1D2C8) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



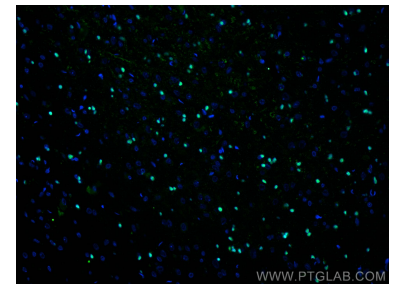
Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 66786-1-Ig (SOX10 antibody) at dilution of 1:300 (under 40x lens).



1X10<sup>6</sup> C6 cells were intracellularly stained with 0.4 ug Anti-Human SOX10 (66786-1-Ig, Clone:1D2C8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 66786-1-Ig (SOX10 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using SOX10 antibody (66786-1-Ig, Clone: 1D2C8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).