

For Research Use Only

# SOX10 Monoclonal antibody

Catalog Number: 66786-1-Ig **6 Publications**



## Basic Information

**Catalog Number:**

66786-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG23191

**GenBank Accession Number:**

BC002824

**GeneID (NCBI):**

6663

**UNIPROT ID:**

P56693

**Full Name:**

SRY (sex determining region Y)-box 10

**Calculated MW:**

50 kDa

**Observed MW:**

55-60 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1D2C8

**Recommended Dilutions:**

WB 1:1000-1:6000

IHC 1:300-1:1200

IF 1:200-1:800

## Applications

**Tested Applications:**

FC, IF-P, IHC, WB, ELISA

**Cited Applications:**

IF, IHC

**Species Specificity:**

Human, mouse, rat

**Cited Species:**

chicken, rat, mouse, rabbit

**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 : A375 cells,

IHC : human malignant melanoma tissue, mouse brain tissue

IF : rat brain tissue, mouse brain tissue

## 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
Subraja 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:

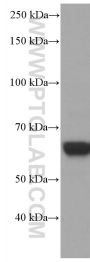
T: 4006900926

E: Proteintech-CN@ptglab.com

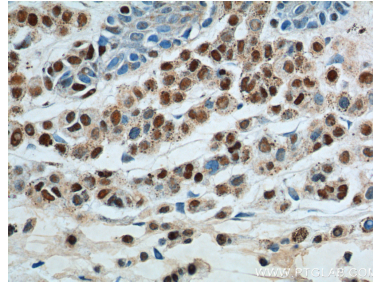
W: ptgcn.com

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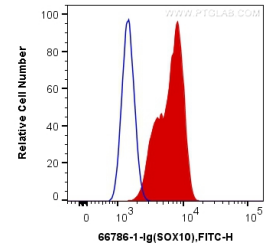
## Selected Validation Data



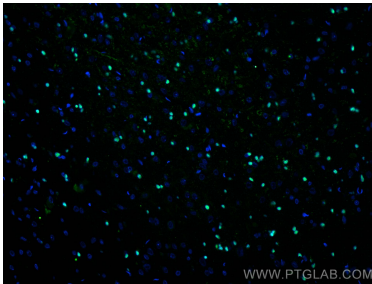
A375 cells were subjected to SDS PAGE followed by western blot with 66786-1-Ig (SOX10 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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



$1 \times 10^6$  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).



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).