

# SOX10 Rabbit mAb

Catalog No.: A8658 **Recombinant**

## Basic Information

### Observed MW

62-75 kDa

### Calculated MW

31 kDa/50 kDa

### Category

Primary antibody

### Applications

WB,IP,IF/ICC,IHC-P,mIHC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC1768

## Background

This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:4000
<b>IP</b>	0.5 µg - 4 µg antibody for 200 µg - 400µg extracts of whole cells
<b>IF/ICC</b>	1:50 - 1:200
<b>IHC-P</b>	1:50 - 1:200
<b>mIHC</b>	1:200 - 1:800
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

6663

### Swiss Prot

P56693

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

DOM; WS4; PCWH; WS2E; WS4C; SOX-10; SOX10

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact

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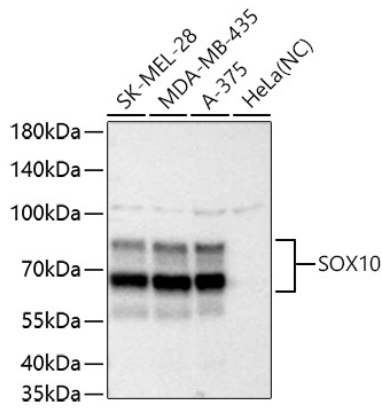
 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

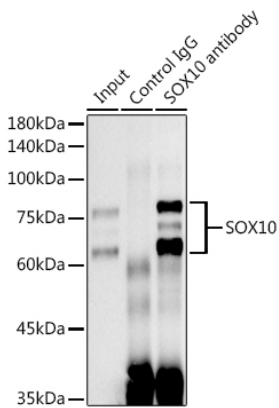
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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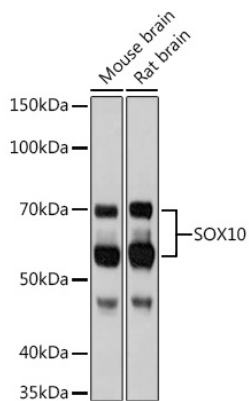
## Validation Data



Western blot analysis of various lysates using SOX10 Rabbit mAb (A8658) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): HeLa. Exposure time: 1 s.

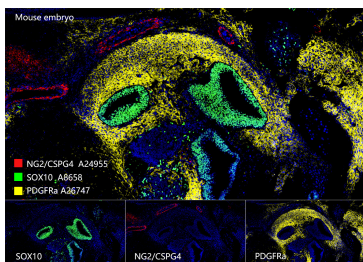


Immunoprecipitation analysis of 300 µg extracts of C6 cells using 3 µg SOX10 antibody (A8658). Western blot was performed from the immunoprecipitate using SOX10 antibody (A8658) at a dilution of 1:1000.

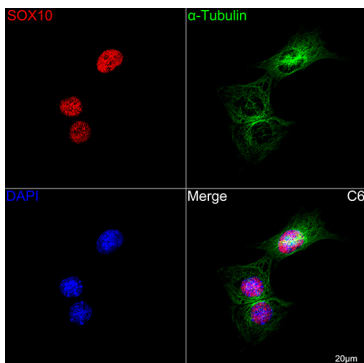


Western blot analysis of various lysates using SOX10 Rabbit mAb (A8658) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.

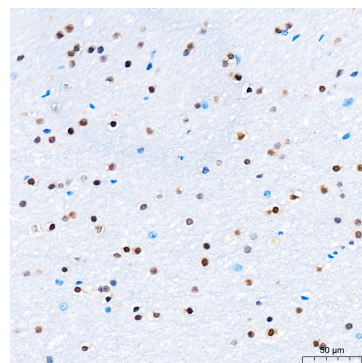
## Validation Data



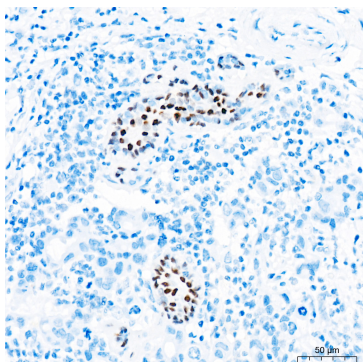
The multiplex IHC analysis on paraffin-embedded Mouse embryo tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : SOX10 Rabbit mAb (A8658, 1:400) with TSA-TYR-520 (Green), and NG2/CSPG4 Rabbit mAb (A24955, 1:1000) with TSA-TYR-570 (Red), and PDGFRα Rabbit mAb (A26747, 1:1000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 30x objective lens.



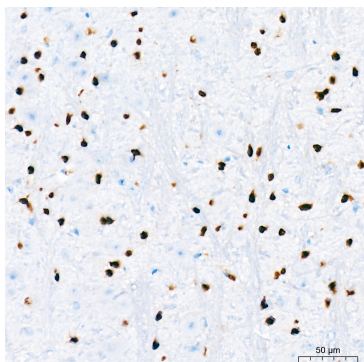
Confocal imaging of C6 cells using SOX10 Rabbit mAb (A8658, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



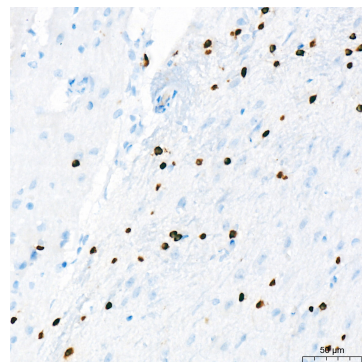
Immunohistochemistry analysis of paraffin-embedded Human brain tissue using SOX10 Rabbit mAb (A8658) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human breast tissue using SOX10 Rabbit mAb (A8658) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using SOX10 Rabbit mAb (A8658) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using SOX10 Rabbit mAb (A8658) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.