



## Rabbit anti SOX-1 Polyclonal Antibody

Alternative Name(s): SRY (sex determining region Y)-box 1

### Order Information

- **Description:** SOX-1
- **Catalogue:** 601-480
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms

### **ANTIGEN PREPARATION**

A synthetic peptide derived from N-terminus of Human SOX-1 protein. This sequence is identical among human and mouse.

### **BACKGROUND**

The SOX1 is a transcription factor, a member of the SRY-related HMG-box (SOX) family involved in the regulation of embryonic development and in the determination of cell fate. SOX1 is expressed in the developing brain. SOX1 is related to the HMG box of family transcription factors, which are a highly motile group, with a highly conserved DNA binding domain. Sox1 utilizes multiple pathways to play a direct role on cell fate. SOX1 is also directly involved with sex determination of the Y chromosome. Binding of the SOX1, C-terminus, to the Hes 1 promoter results in Hes1 suppression and attenuation of Notch signaling. When the C-terminus of SOX1 binds to  $\beta$ -catenin, TCF/LEF is suppressed, resulting in the attenuation of Wnt signaling.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~40 kDa of human SOX-1 protein. It also reacts with mouse. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

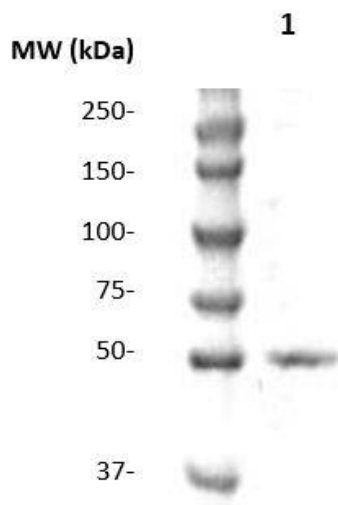
- Western Blot: 0.1-1  $\mu\text{g/ml}$
- ELISA: 0.01-0.1  $\mu\text{g/ml}$
- Immunoprecipitation: 2-5  $\mu\text{g/ml}$
- IHC: 2-10  $\mu\text{g/ml}$
- Flow cytometry: Not tested
- Molecular Weight: 40.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

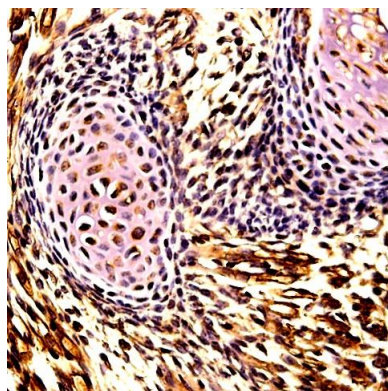
### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



Western Blot: The whole cell lysate derived from embryonic mouse brain (20 ug/lane) immunoblotted by Rabbit anti-SOX-1 (Cat#601-480) at 1:500. An immunoreactive protein band was observed around 40kDa.



Immunohistochemistry: Mouse embryo tissue (FFPE) stained with Rabbit anti-SOX-1 antibody (Cat# 601-480) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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