

**Anti-SOX1 Picoband Antibody**  
Catalog # ABO12094**Specification**

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**Anti-SOX1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O00570</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Transcription factor SOX-1(SOX1) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SOX1 Picoband Antibody - Additional Information**

**Gene ID** 6656

**Other Names**

Transcription factor SOX-1, SOX1

**Calculated MW**

39023 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human <br>

**Subcellular Localization**

Nucleus .

**Tissue Specificity**

Mainly expressed in the developing central nervous system.

**Protein Name**

Transcription factor SOX-1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of Human SOX1(215-248aa QHPGAGGAHPHAHPAHPHPHHPHAHPHNPMHR), identical to the related mouse sequence.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-SOX1 Picoband Antibody - Protein Information****Name** SOX1**Function**

Transcriptional activator. May function as a switch in neuronal development. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity).

**Cellular Location**

Nucleus.

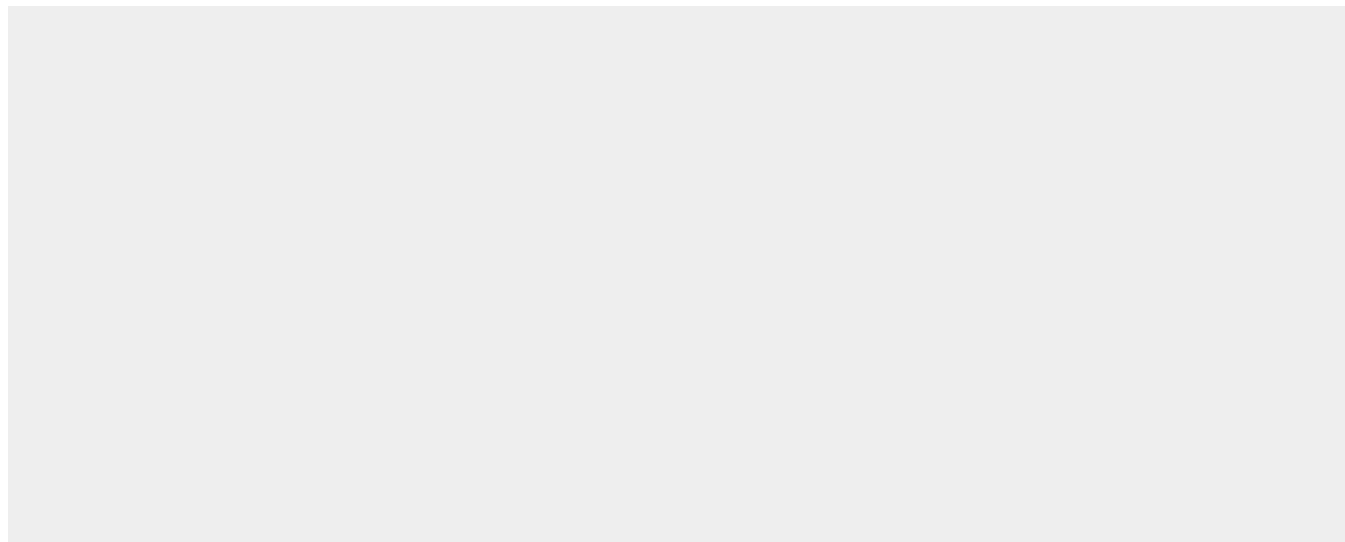
**Tissue Location**

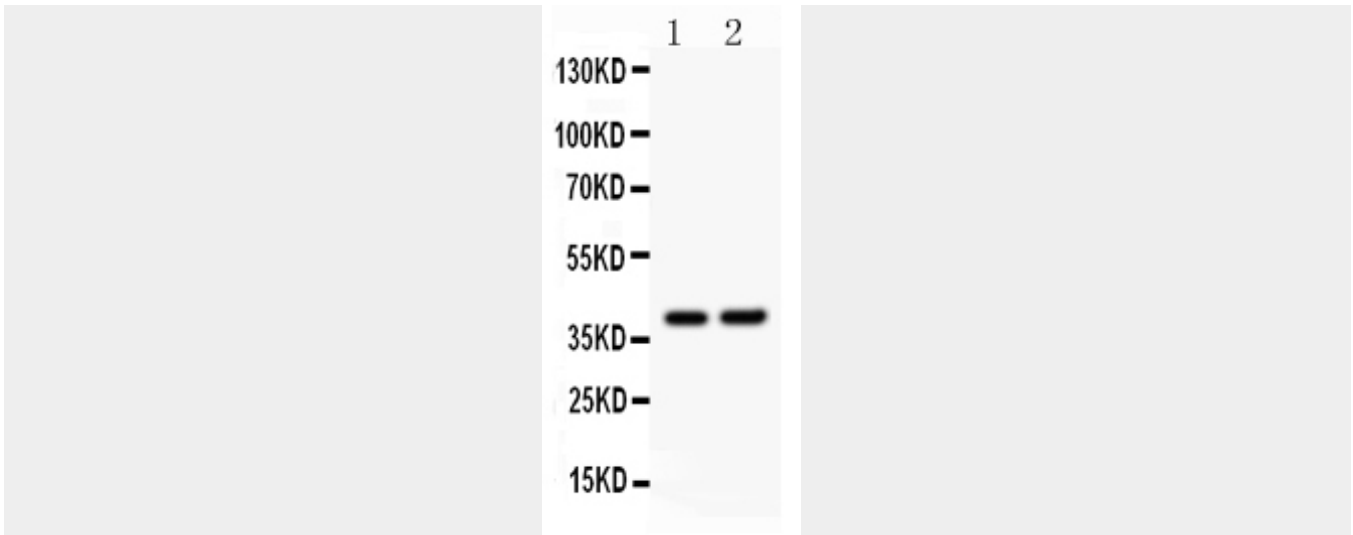
Mainly expressed in the developing central nervous system

**Anti-SOX1 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-SOX1 Picoband Antibody - Images**



Anti- SOX1 Picoband antibody, ABO12094, Western blotting All lanes: Anti SOX1 (ABO12094) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 39KD Observed bind size: 39KD

#### **Anti-SOX1 Picoband Antibody - Background**

SOX1 (for Sex determining region Y-box 1), located in 13q34, is a transcription factor in the Sox protein family. It means that this intronless 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. In mice, a similar protein regulates the gamma-crystallin genes and is essential for lens development. SOX1 expression is restricted to neuroectoderm in the tetrapod embryo. It is expressed particularly in the ventral striatum.