

**(Mouse) Sox2 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21154a**

**Specification**

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**(Mouse) Sox2 Antibody (N-term) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB,E                   |
| Primary Accession | <a href="#">P48432</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 34454                  |

**(Mouse) Sox2 Antibody (N-term) - Additional Information**

**Gene ID** 20674

**Other Names**

Transcription factor SOX-2, Sox2, Sox-2

**Target/Specificity**

This Mouse Sox2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 34-68 amino acids from the N-terminal region of mouse Sox2.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

(Mouse) Sox2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**(Mouse) Sox2 Antibody (N-term) - Protein Information**

**Name** Sox2

**Synonyms** Sox-2

**Function** Transcription factor that forms a trimeric complex with POU5F1 (OCT3/4) on DNA and

controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (PubMed:[15863505](#), PubMed:[17097055](#), PubMed:[19740739](#), PubMed:[32703285](#)). Binds to the proximal enhancer region of NANOG (PubMed:[15863505](#)). Critical for early embryogenesis and for embryonic stem cell pluripotency (By similarity). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (PubMed:[22198669](#)). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity). May function as a switch in neuronal development (By similarity).

#### Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267, ECO:0000269|PubMed:17097055, ECO:0000269|PubMed:19349578, ECO:0000269|PubMed:32127020}. Cytoplasm Note=Nuclear import is facilitated by XPO4, a protein that usually acts as a nuclear export signal receptor.

#### Tissue Location

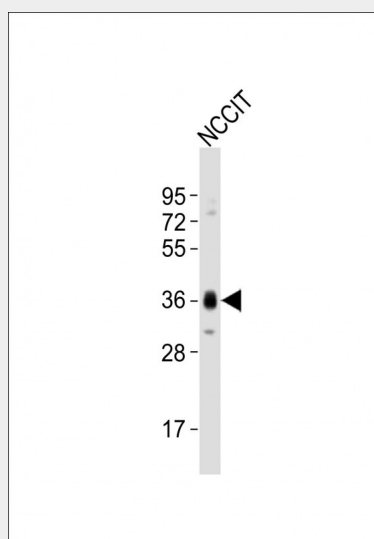
Expressed in the cochlea (at protein level) (PubMed:32127020). Expressed in the brain and retina (PubMed:15863505, PubMed:7590241). A very low level of expression is seen in the stomach and lung (PubMed:15863505, PubMed:7590241). Expressed in the kidney (PubMed:15863505).

### (Mouse) Sox2 Antibody (N-term) - 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](#)

### (Mouse) Sox2 Antibody (N-term) - Images



Anti-(Mouse) Sox2 Antibody (N-term) at 1:1000 dilution + NCCIT whole cell lysates  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated  
at 1/10000 dilution Predicted band size :34 kDa Blocking/Dilution buffer: 5% NFD/MBST.

**(Mouse) Sox2 Antibody (N-term) - Background**

Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity).

**(Mouse) Sox2 Antibody (N-term) - References**

- Yuan H.,et al.Genes Dev. 9:2635-2645(1995).  
Yuan H.,et al.Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.  
Collignon J.,et al.Development 122:509-520(1996).  
Tsuruzoe S.,et al.Biochem. Biophys. Res. Commun. 351:920-926(2006).  
Takahashi K.,et al.Cell 126:663-676(2006).