

# (Mouse) Sox2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21154a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P48432</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB50953
<b>Calculated MW</b>	34454

## Additional Information

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<b>Gene ID</b>	20674
<b>Other Names</b>	Transcription factor SOX-2, Sox2, Sox-2
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	(Mouse) Sox2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	Sox2
<b>Synonyms</b>	Sox-2
<b>Function</b>	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: <a href="#">15863505</a> , PubMed: <a href="#">17097055</a> , PubMed: <a href="#">19740739</a> , PubMed: <a href="#">32703285</a> ). 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).

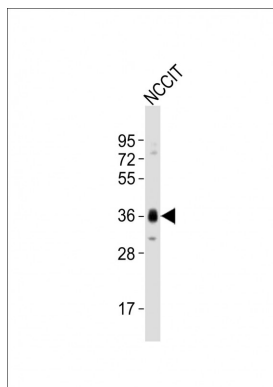
## Background

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).

## 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).

## 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% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.