

(Mouse) Sox2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20939b

Specification

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

Application	WB,E
Primary Accession	P48432
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
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 6~39 amino acids from the N-terminal region of mouse sox2.

Dilution

WB~~1:1000

Format

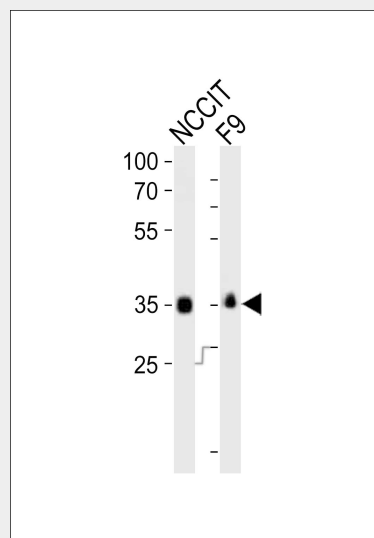
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.



Western blot analysis of lysates from NCCIT, mouse F9 cell line (from left to right), using Sox2 Antibody (N-term)(Cat. #AP20939b). AP20939b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

(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

(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). 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:32127020}

Tissue Location

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

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).

**(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](#)