

**SOX2 Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS12003****Specification**

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**SOX2 Antibody (N-Terminus) - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P48431</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34kDa KDa

**SOX2 Antibody (N-Terminus) - Additional Information****Gene ID** 6657**Other Names**

Transcription factor SOX-2, SOX2

**Target/Specificity**

Peptide-KLH (N-terminal)

**Reconstitution & Storage**

+4°C or -20°C, Avoid repeated freezing and thawing.

**Precautions**

SOX2 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**SOX2 Antibody (N-Terminus) - Protein Information****Name** SOX2**Function**

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 (By similarity). Binds to the proximal enhancer region of NANOG (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:<a href="http://www.uniprot.org/citations/18035408" target="\_blank">18035408</a>). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). 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 speckle {ECO:0000250|UniProtKB:Q05066}. Cytoplasm {ECO:0000250|UniProtKB:Q05738}. Nucleus {ECO:0000250|UniProtKB:Q05738}.

Note=Acetylation contributes to its nuclear localization and deacetylation by HDAC3 induces a cytoplasmic delocalization (By similarity). Colocalizes in the nucleus with ZNF208 isoform KRAB-O and tyrosine hydroxylase (TH) (By similarity) Colocalizes with SOX6 in speckles. Colocalizes with CAML in the nucleus (By similarity). Nuclear import is facilitated by XPO4, a protein that usually acts as a nuclear export signal receptor (By similarity) {ECO:0000250|UniProtKB:Q05066, ECO:0000250|UniProtKB:Q05738}

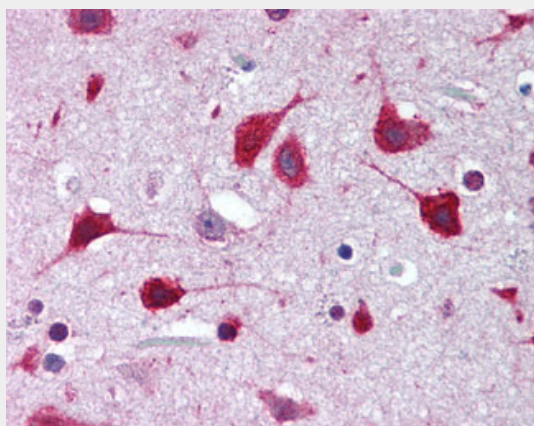
**Volume**

50 µl

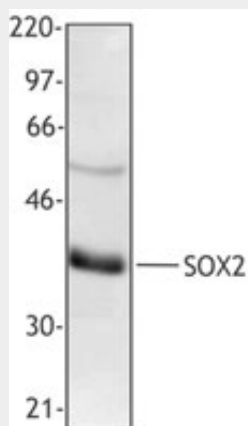
**SOX2 Antibody (N-Terminus) - Protocols**

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](#)

**SOX2 Antibody (N-Terminus) - Images**

Anti-SOX2 antibody IHC of human brain, cortex.



NTERA-2 whole cell extract was resolved by electrophoresis, transferred to nitrocellulose and...

### **SOX2 Antibody (N-Terminus) - 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 (By similarity). 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 (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity).

### **SOX2 Antibody (N-Terminus) - References**

Stevanovic M.,et al.Mamm. Genome 5:640-642(1994).  
Sadler L.A.,et al.Submitted (DEC-1992) to the EMBL/GenBank/DDBJ databases.  
Fantes J.,et al.Nat. Genet. 33:461-463(2003).  
Takahashi K.,et al.Cell 131:861-872(2007).  
Rigbolt K.T.,et al.Sci. Signal. 4:RS3-RS3(2011).