

SOX2 antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # Al11380

### Specification

# SOX2 antibody - N-terminal region - Product Information

Application Primary Accession Other Accession Reactivity

Predicted

Host Clonality Calculated MW WB <u>P48431</u> <u>NM\_003106</u>, <u>NP\_003097</u> Human, Mouse, Rat, Zebrafish, Pig, Goat, Bovine Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Sheep Rabbit Polyclonal 34kDa KDa

# SOX2 antibody - N-terminal region - Additional Information

Gene ID 6657

Alias Symbol Other Names Transcription factor SOX-2, SOX2 ANOP3, MGC2413, MCOPS3

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage** 

Add 100 ul of distilled water. Final anti-SOX2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions** SOX2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

# SOX2 antibody - N-terminal region - 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}

#### SOX2 antibody - N-terminal region - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### SOX2 antibody - N-terminal region - Images



#### SOX2 antibody - N-terminal region - References

Lei,J.X., (2005) Cell Death Differ. 12 (11), 1368-1377 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.