

Goat anti-SOX2 Antibody

Peptide-affinity purified goat antibody Catalog # AF4507a

Specification

Goat anti-SOX2 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host

Clonality Calculated MW WB, IF, FC, Pep-ELISA

P48431 NP_003097.1

Human, Mouse, Rat, Dog, Bovine

Goat Polyclonal 34310

Goat anti-SOX2 Antibody - Additional Information

Gene ID 6657

Other Names

SOX2; SRY (sex determining region Y)-box 2; ANOP3; MGC2413; SRY-related HMG-box gene 2; sex-determining region Y-box 2; transcription factor SOX2

Dilution

WB~~1:1000 IF~~1:50~200 FC~~1:10~50 Pep-ELISA~~N/A

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

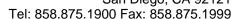
Goat anti-SOX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-SOX2 Antibody - 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:18035408). 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}

Goat anti-SOX2 Antibody - Protocols

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

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

Goat anti-SOX2 Antibody - Images