

SOX2(S83)Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP22484a

Product Information

Application WB, E **Primary Accession** P48431 Reactivity Human Host Rabbit Clonality polyclonal Isotype Rabbit Ig **Clone Names** R04365NP Calculated MW 34310

Additional Information

Gene ID 6657

Other Names Transcription factor SOX-2, SOX2

Target/Specificity This SOX2(S83) antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between amino acids from the human region of

human SOX2(S83).

Dilution WB~~1:2000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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 SOX2(S83)Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

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}

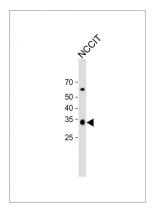
Background

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). 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).

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).
Gontan C., et al. J. Cell Biol. 185:27-34(2009).

Images



All lanes: Anti-SOX2(S83)Antibody at 1:2000 dilution + NCCIT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed 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'.