

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5651a**Specification**

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P48431](#)
Other Accession [NP_003097.1](#)

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 6657

Other Names

Transcription factor SOX-2, SOX2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - 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}

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - Images

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - Background

This intronless gene encodes a member of the SRY-relatedHMG-box (SOX) family of transcription factors involved in theregulation of embryonic development and in the determination ofcell fate. The product of this gene is required for stem-cellmaintenance in the central nervous system, and also regulates geneexpression in the stomach.

Sox2-pS246-pS249-pS250--pS251 Antibody (C-term) Blocking peptide - References

Tung, C.L., et al. Biochem. Biophys. Res. Commun. 393(3):420-425(2010)Laga, A.C., et al. Am. J. Pathol. 176(2):903-913(2010)Gu, H.F., et al. Gend Med 6(4):555-564(2009)Schneider, A., et al. Am. J. Med. Genet. A 149A (12), 2706-2715 (2009) :Zhang, X., et al. Mol. Vis. 15, 2911-2918 (2009)