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Phospho-SOX2(S83) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3651a

Specification

Phospho-SOX2(S83) Antibody Blocking peptide - Product Information

Primary Accession P48431

Phospho-SOX2(S83) Antibody Blocking peptide - Additional Information

Gene ID 6657

Other Names
Transcription factor SOX-2, SOX2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3651a was selected from the region of human Phospho-SOX2-S83. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Phospho-SOX2(S83) Antibody Blocking peptide - Protein Information

Name SOX2

Function
Transcription factor that forms a trimeric

Phospho-SOX2(S83) Antibody Blocking peptide - Background

SOX2 is a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. This protein may act as a transcriptional activator after forming a protein complex with other proteins. Mutations in the SOX2 gene have been associated with bilateral anophthalmia, a severe form of structural eye malformation.

Phospho-SOX2(S83) Antibody Blocking peptide - References

Remenyi, A., et al., Genes Dev. 17(16):2048-2059 (2003).Wiebe, M.S., et al., J. Biol. Chem. 278(20):17901-17911 (2003).Fantes, J., et al., Nat. Genet. 33(4):461-463 (2003).Schepers, G.E., et al., Dev. Cell 3(2):167-170 (2002).Kamachi, Y., et al., Trends Genet. 16(4):182-187 (2000).

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 {ECO:0000250|UniProtKB:P48432}.

Phospho-SOX2(S83) Antibody Blocking peptide - Protocols

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

- Blocking Peptides