

Phospho-SOX2(S83) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3651a

Specification

Phospho-SOX2(S83) Antibody - Product Information

Application	DB,E
Primary Accession	P48431
Other Accession	P48432 , P54231
Reactivity	Human
Predicted	Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	34310

Phospho-SOX2(S83) Antibody - Additional Information

Gene ID 6657

Other Names

Transcription factor SOX-2, SOX2

Target/Specificity

This SOX2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S83 of human SOX2.

Dilution

DB~~1:500

Format

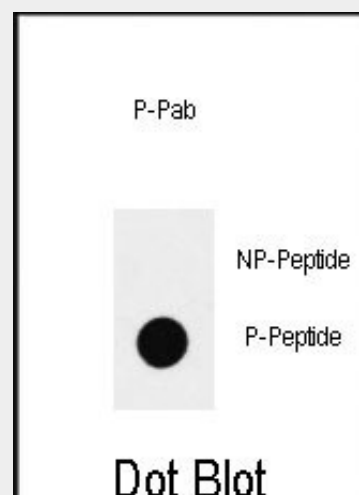
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Phospho-SOX2(S83) Antibody is for research use only and not for use in



Dot blot analysis of anti-Phospho-SOX2-S83 Antibody (Cat. #AP3651a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Phospho-SOX2(S83) Antibody - 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 - 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).
Fantès, J., et al., Nat. Genet. 33(4):461-463 (2003).

diagnostic or therapeutic procedures.

Schepers, G.E., et al., Dev. Cell 3(2):167-170 (2002).

Kamachi, Y., et al., Trends Genet. 16(4):182-187 (2000).

Phospho-SOX2(S83) 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 {ECO:0000250|UniProtKB:P48432}.

Phospho-SOX2(S83) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)