

phospho-Sox2(S251) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3742a

Specification

phospho-Sox2(S251) Antibody - Product Information

Application	DB,E
Primary Accession	P48431
Other Accession	P48432 , NP_003097.1 , P54231
Reactivity	Human
Predicted	Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig

phospho-Sox2(S251) 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 S251 of human Sox2.

Dilution

DB~~1:500

Format

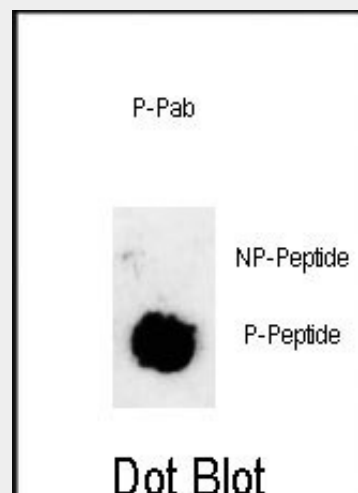
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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(S251) Antibody is for



Dot blot analysis of anti-phospho-Sox2-pS251 Phospho-specific Pab (Cat. #AP3742a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

phospho-Sox2(S251) Antibody - Background

This intronless gene encodes 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. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping

research use only and not for use in diagnostic or therapeutic procedures.

phospho-Sox2(S251) 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}.

transcript (SOX2OT).

phospho-Sox2(S251) Antibody - References

Gen, Y., et al. Cancer Genet. Cytogenet. 202(2):82-93(2010)
Ji, J., et al. Hum. Pathol. 41(10):1438-1447(2010)
Fang, X., et al. OMICS 14(4):369-384(2010)
Sholl, L.M., et al. Am. J. Surg. Pathol. 34(8):1193-1198(2010)
Zhang, D., et al. BMC Med. Genet. 11, 116 (2010) :

phospho-Sox2(S251) 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](#)

phospho-Sox2(S251) Antibody - Citations

- [XIAP Limits Autophagic Degradation of Sox2 and Is A Therapeutic Target in Nasopharyngeal Carcinoma Stem Cells.](#)