

SOX2 Antibody (A30)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2048g

Specification

SOX2 Antibody (A30) - Product Information

Application	IF, WB,E
Primary Accession	P48431
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	34310
Antigen Region	15-43

SOX2 Antibody (A30) - 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 peptide between 15-43 amino acids from human SOX2.

Dilution

IF~~1:10~50

WB~~1:1000

Format

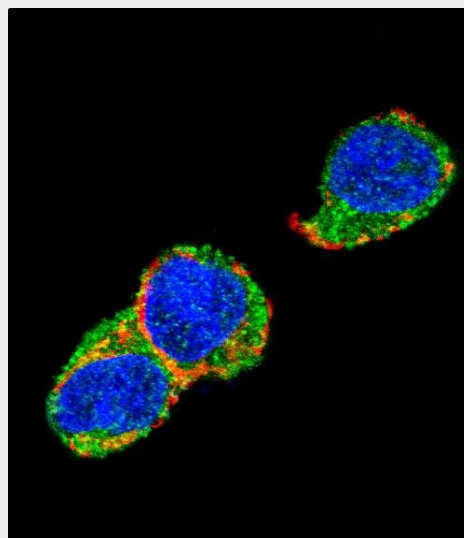
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

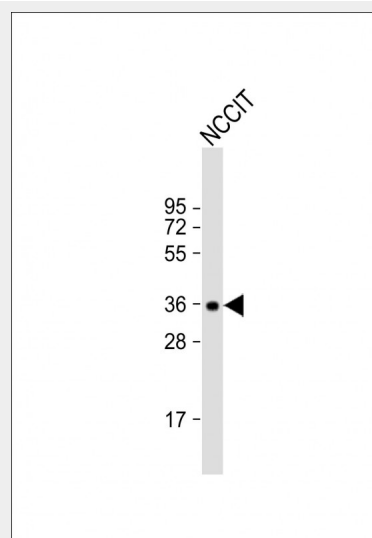
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SOX2 Antibody (A30) is for research use only and not for use in diagnostic or therapeutic procedures.



Confocal immunofluorescent analysis of SOX2 Antibody (A30)(Cat#AP2048g) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



Anti-SOX2 Antibody (A30) at 1:1000 dilution + NCCIT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000

SOX2 Antibody (A30) - 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

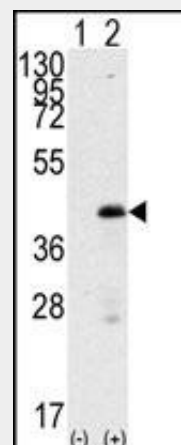
Nucleus {ECO:0000250|UniProtKB:P48432}.

SOX2 Antibody (A30) - 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](#)

dilution. Predicted band size : 34 kDa
Blocking/Dilution buffer: 5% NFDN/TBST.



Western blot analysis of SOX2 (arrow) using rabbit polyclonal SOX2 Antibody (A30) (Cat.#AP2048g). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SOX2 gene (Lane 2) (Origene Technologies).

SOX2 Antibody (A30) - Background

The intronless gene for SOX2 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 encoded 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.

SOX2 Antibody (A30) - 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).
Schepers, G.E., et al., Dev. Cell 3(2):167-170 (2002).
Kamachi, Y., et al., Trends Genet. 16(4):182-187 (2000).