

SOX2 Rabbit pAb

Catalog No.: A11501

Basic Information

Observed MW

35kDa

Calculated MW

34kDa

Category

Primary antibody

Applications

WB, IHC-P, IF/ICC, (ELISA)

Cross-Reactivity

Human, Mouse, Rat

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 transcript (SOX2OT).

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

6657

Swiss Prot

P48431

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-190 of human SOX2 (NP_003097.1).

Synonyms

ANOP3; MCOPS3; SOX2

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

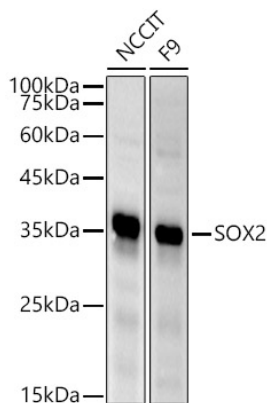
Affinity purification

Storage

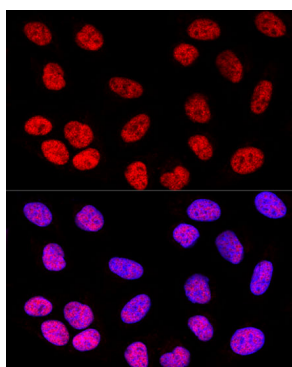
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

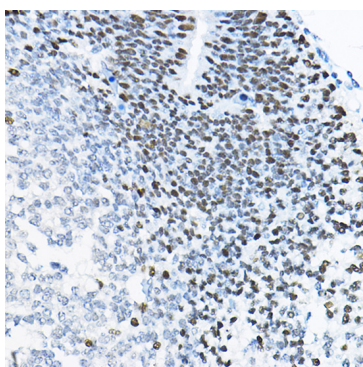
Validation Data



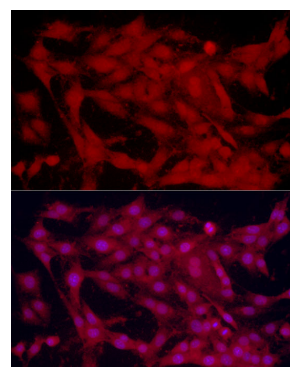
Western blot analysis of various lysates using SOX2 Rabbit pAb (A11501) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



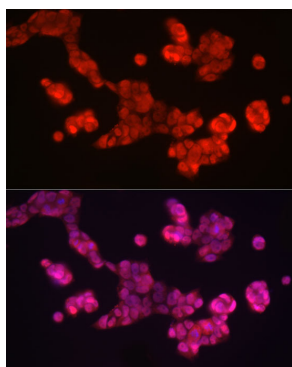
Confocal immunofluorescence analysis of U-2 OS cells using SOX2 Rabbit pAb (A11501) at dilution of 1:200. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Mouse fetal Brain using SOX2 Rabbit pAb (A11501) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of C6 cells using SOX2 Rabbit pAb (A11501) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NCCIT cells using SOX2 Rabbit pAb (A11501) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.