

Product Name: SOX2 Mouse Monoclonal Antibody
Catalog #: AMM85968



Summary

Production Name	SOX2 Mouse Monoclonal Antibody
Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC
Reactivity	Human, Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in TBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	SOX2
Alternative Names	Transcription factor SOX-2, SOX2
Gene ID	6657.0
SwissProt ID	P48431.SOX2 recombinant protein is used to produce this monoclonal antibody.

Application

Dilution Ratio	WB 1:200-1:2000,IHC 1:100-1:500,ICC 1:20-1:50,FC 1:20-1:50
Molecular Weight	34.3kDa

Background

This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the

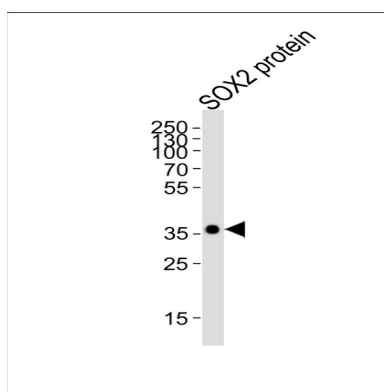
Product Name: SOX2 Mouse Monoclonal Antibody
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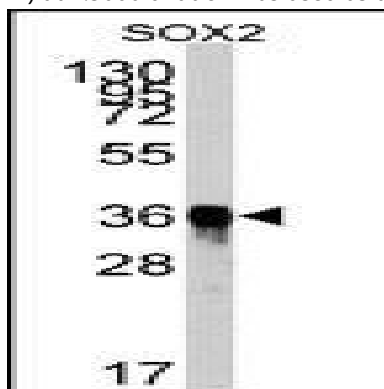
regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT).

Research Area

Image Data

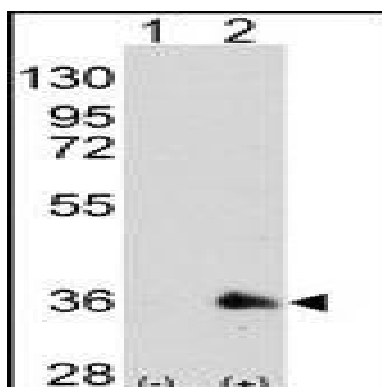


Western blot analysis of lysate from SOX2 protein, using SOX2 Antibody (Cat. #AMM85968). AMM85968 was diluted at 1:4000. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysate at 20µg.

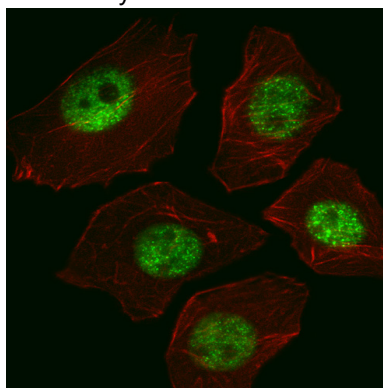


Western blot analysis of SOX2 Antibody (Cat.#AMM85968) by SOX2 recombinant protein. SOX2 (arrow) was detected using the purified Mab.

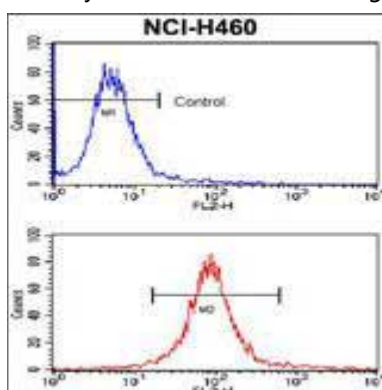
Product Name: SOX2 Mouse Monoclonal Antibody
Catalog #: AMM85968



Western blot analysis of SOX2 (arrow) using mouse monoclonal SOX2 antibody (Cat.#AMM85968). 293 cell lysates (2 μ g/lane) either nontransfected (Lane 1) or transiently transfected with the SOX2 gene (Lane 2) (Origene Technologies)

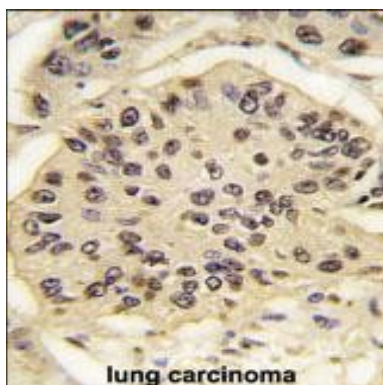


Fluorescent image of A549 cell stained with SOX2 Antibody(Cat#AMM85968).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with SOX2 primary antibody (1:25, 1 h at 37°C. For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:400, 50 min at 37°C.Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C.SOX2 immunoreactivity is localized to Nucleus significantly.

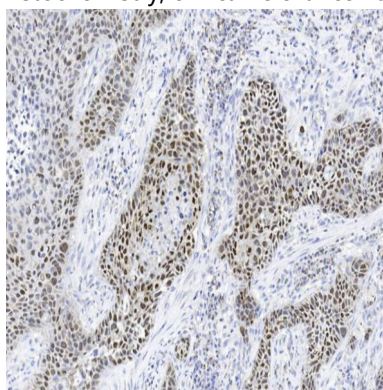


Flow cytometric analysis of NCI-H460 cells using SOX2 Monoclonal Antibody (bottom histogram) compared to a negative control cell (top histogram). PE-conjugated goat-anti-mouse secondary antibodies were used for the analysis.

Product Name: SOX2 Mouse Monoclonal Antibody
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Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with SOX2 Antibody (Cat.#AMM85968), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunohistochemical analysis of paraffin-embedded Human Lung squamous cell carcinoma section using Pink1(Cat#am2048a). am2048a was diluted at 1:100 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Note

For research use only.