

Product datasheet for TA302025S

Product datasneet for TASU20253

SOX2 Mouse Monoclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: FC, IF, IHC, WB

Recommended Dilution: IF: 1:100, WB: 1:200~2000, IHC: 1:50~100, FC: 1:10~50

Reactivity: Humar Host: Mouse

Isotype: IgG1, kappa
Clonality: Monoclonal

Immunogen: SOX2 recombinant protein is used to produce this monoclonal antibody.

Formulation: Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

Purification: This antibody is purified through a protein G column, followed by dialysis against PBS.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 34310 Da

Gene Name: SRY-box 2

Database Link: NP 003097

Entrez Gene 6657 Human

P48431

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.

Synonyms: ANOP3; MCOPS3

Protein Families: Adult stem cells, Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced

pluripotent stem cells, Transcription Factors



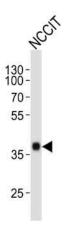
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

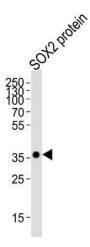
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



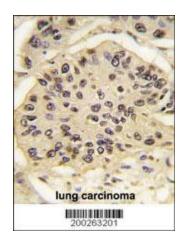
Product images:



Western blot analysis of SOX2 Antibody (Cat.# [TA302025]) by SOX2 recombinant protein. SOX2 (arrow) was detected using the purified Mab.

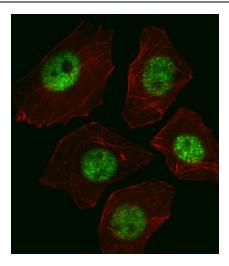


Western blot analysis of SOX2 (arrow) using mouse monoclonal SOX2 antibody (Cat.# [TA302025]). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SOX2 gene (Lane 2) (Origene Technologies)

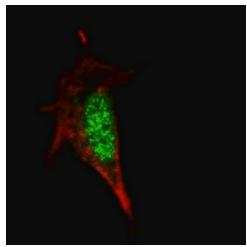


Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with SOX2 Antibody (Cat.#[TA302025]), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

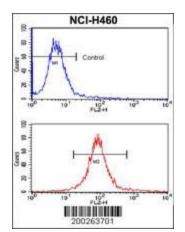




IF image of A549 cell stained with SOX2 Antibody (Cat#[TA302025]/SG110310AA).A549 cells were incubated with SOX2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:400).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml).SOX2 immunoreactivity is localized to Nucleus significantly.



Fluorescent confocal image of SY5Y cells stained with SOX2 antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with [TA302025] SOX2 primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey antimouse antibody (green) was used (1:1000, 1h). Note the highly specific localization of the SOX2 mainly to the nucleus.



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.