Product Datasheet

SOX2 Mouse Monoclonal Antibody (orb1473888)

Catalog Number	orb1473888
Category	Antibodies
Description	The SOX2 Antibody is suitable for FC, IF, IHC, WB. It is a Monoclonal, Unconjugated antibody which raised against Recombinant fusion protein of human SOX2. The exact sequence is proprietary. Purification: This antibody is purified through a protein G column.
Target	SOX2
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1
Conjugation	Unconjugated
Reactivity	Human
Form/Appearance	Liquid
Buffer/Preservatives	PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purification	This antibody is purified through a protein G column.
Immunogen	Recombinant fusion protein of human SOX2. The exact sequence is proprietary.
UniProt ID	P48431
Tested applications	FC, IF, IHC, WB
Dilution range	WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/10 - 1/50), FC (1/10 - 1/50)

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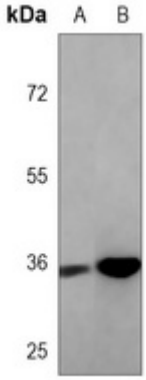
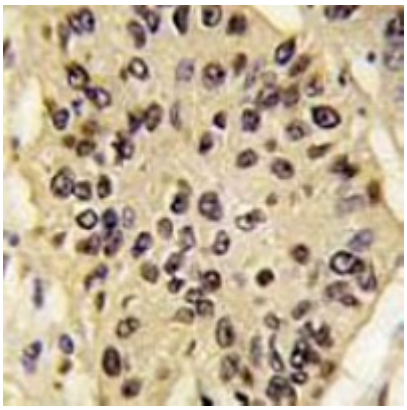
Specificity	Recognizes endogenous levels of SOX2 protein.
Antibody Type	Primary Antibody
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Entrez	**6657**
Expiration Date	12 months from date of receipt.



Western blot analysis of SOX2 expression in 293 (A), transiently transfected with the SOX2 (B) whole cell lysates. (Predicted band size: 34 kD; Observed band size: 34 kD)



Immunohistochemical analysis of SOX2 staining in human lung carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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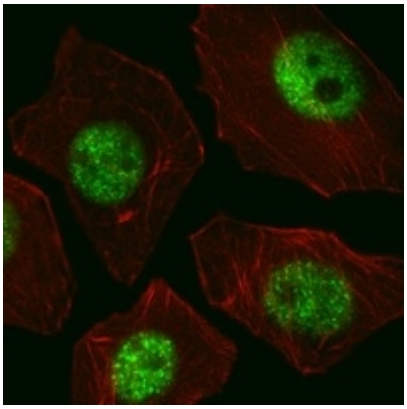
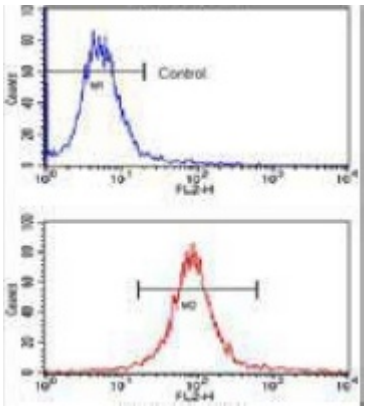


Immunofluorescent analysis of SOX2 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF555 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of NCIH460 cells using Anti-SOX2 Antibody. The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody at 37 °C for 60 min. The secondary antibody Goat Anti-Mouse IgG (H&L) - AF488 was incubated at 37 °C for 40 min. Isotype control antibody (blue line) was used under the same condition.

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