

ARG54002 anti-SOX2 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes SOX2
Tested Reactivity	Hu, Ms
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	SOX2
Species	Mouse
Immunogen	Purified recombinant mouse Sox2 protein fragments expressed in E.coli
Conjugation	Un-conjugated
Alternate Names	Transcription factor SOX-2; MCOPS3; ANOP3

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	35 kDa	

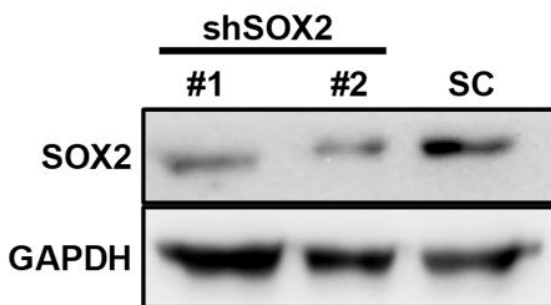
Properties

Form	Liquid
Purification	Affinity purified
Buffer	0.1M Tris-Glycine (pH 7.4), 150 mM NaCl, 0.2% Sodium azide and 50% Glycerol
Preservative	0.2% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

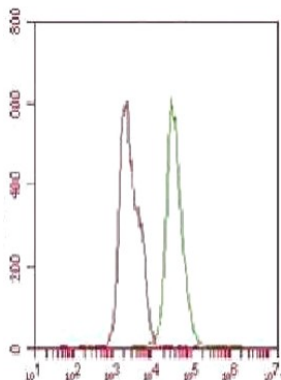
Database links	GeneID: 20674 Mouse GeneID: 6657 Human Swiss-port # P48431 Human Swiss-port # P48432 Mouse
Gene Symbol	Sox2
Gene Full Name	SRY (sex determining region Y)-box 2
Function	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity). [UniProt]
Research Area	Developmental Biology antibody; Gene Regulation antibody; Neuroscience antibody
Calculated Mw	34 kDa
PTM	Sumoylation inhibits binding on DNA and negatively regulates the FGF4 transactivation.
Cellular Localization	Nucleus

Images



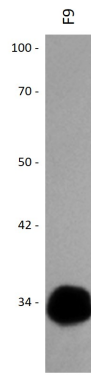
ARG54002 anti-SOX2 antibody WB image

Western blot: 100 μ g of whole cell lysates from shSOX2 #1, shSOX2 #2 or control transfected 5637 cells (Human bladder cancer cell line) stained with ARG54002 anti-SOX2 antibody at 1:1000 dilution.



ARG54002 anti-Sox2 antibody FACS image

Flow Cytometry: F9 cells stained with ARG54002 anti-Sox2 antibody at 1:100 dilution (green), followed by FITC-conjugated goat mouse IgG. Isotype control, normal mouse IgG (black).



ARG54002 anti-Sox2 antibody WB image

Western blot: Mouse F9 cell lysates stained with ARG54002 anti-Sox2 antibody at 1:1000 dilution.