

Sox-2 Antibody (Clone # 57CT23.3.4)

ALTERNATE NAMES: SOX2; Transcription factor SOX-2

CATALOG #: 6772-100

AMOUNT: 100 µl

HOST/ISOTYPE: Mouse IgG1

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

MOLECULAR WEIGHT: ~35 kDa

FORM: Liquid

FORMULATION: In PBS with 0.09% (W/V) sodium azide.

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

SPECIES REACTIVITY: Human.

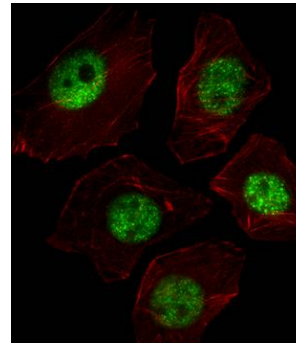
STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: Sox genes comprise a family of genes that are related to the mammalian sex determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. The highly complex group of Sox genes clusters at least 40 different loci that rapidly diverged in various animal lineages. At present, 30 Sox genes have been identified. Members of this family have been shown to be conserved during evolution and to play key roles during animal development. Some are involved in human diseases, including sex reversal.

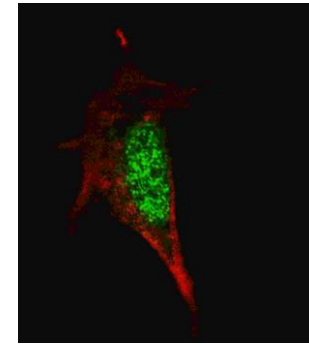
APPLICATION: Western blot: ~1:200 – 1:2000, IHC: 1:50 – 1:100, FACS: 1:10 – 1:50, IF: 1:100.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

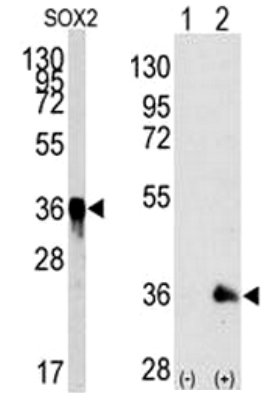
FOR RESEARCH USE ONLY! Not to be used on humans.



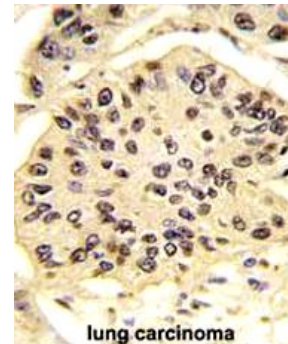
IF of A549 cells with SOX2 Antibody (1:25, 1 h at 37°C) and Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) (1:400, 50 min at 37°C). Cytoplasmic actin counter stained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C).



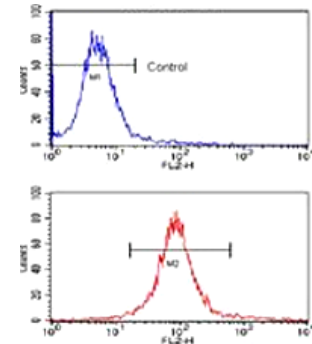
IF confocal image of SY5Y cells stained with SOX2 antibody. (1:100, 2 h at RT) and Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) (1:1000, 1h).



Western blot analysis of SOX2 recombinant protein. SOX2 with Sox-2 mAb (1:1000, 1h).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with SOX2 Antibody which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



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.

RELATED PRODUCTS:

- Sox-1 Antibody (Cat # 3822-100)
- Sox-2 Antibody (Cat # 3889-100)
- Sox-4 Antibody (Cat # 3168-100)
- Sox2, human recombinant (Cat # 7202-10, -50)
- Sox2-TAT, human recombinant (Cat # 7203-10, -50)

