

CA1011	SOX2	
	Monoclonal Antibody (PR-4C6)	
	Prod. No. S2074-100UG	
	<i>For Research Use Only Not intended for use in humans or animals</i>	
	Orders & Support Web	866 372-7442 support@primorigen.com www.primorigen.com

Reacts with	Human*
Tested Applications	WB, ELISA, Dot
Host	Mouse
Clone	PR-4C6
Isotype	IgG1, κ

*Other species not tested

Size: 100 μ g
Immunogen: Recombinant full-length human SOX2 expressed in <i>E. coli</i> and refolded to soluble form.
Purification: Protein G chromatography
Formulation: 1 mg/ml in PBS Preservative: 0.09% NaN ₃
Storage: Store at 4°C (<3 months) or -20°C. Avoid multiple freeze-thaws.
Recommended Uses:
Western Blot 1:1000
ELISA (detect) 1:1000
Dot blot (detect) 1:1000
Note: Optimal concentrations should be empirically determined.
Target Alternative Names: Sex-determining region Y-box 2, SRY-box 2, ANOP3, MCOPS3, MGC2413
Target Size: 317 AA; 34.3 kDa
Target Database Links:
RefSeq Protein NP_003097.1
RefSeq Gene NM_003106.2
UniProt P48431

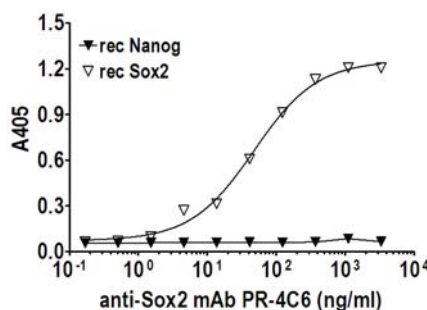
Background: SOX2 is a member of the large family of sex determining region Y-related HMG-box (SOX) transcription factors. SOX2 is expressed in embryonic stem cell lines, and decreased levels of SOX2 interfere with self renewal and pluripotency. SOX2 has been identified as one of the key regulators for induced pluripotent stem (iPS) cells. The DNA binding domain (AA 41-109) shows significant homology to other SOX family members, while the N-terminal (AA 1-38) and C-terminal (AA 194-317) regions are unique. The *Sox2* gene itself contains no introns but lies within an intron of the SOX2 overlapping transcript (*SOX207*) gene.

Applications:

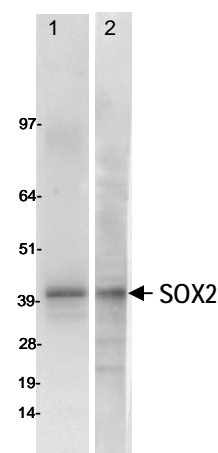
- (A) Indirect ELISA detection of immobilized SOX2 immunogen with titrated amounts of SOX2 mAb (PR-4C6). No binding observed to irrelevant (Nanog) protein.
- (B) Western blot detection of (1) 50 ng recombinant SOX2 protein, and (2) 10 μ g CHO-Sox2 transfectant lysate using 1.0 μ g/ml SOX2 mAb (PR-4E4). The apparent molecular weight of SOX2 by electrophoresis is slightly higher than predicted.
- (C) Specific detection of SOX2 in transfected HEK-293 cell lysates (non-denatured) printed on Spots On Dots™ nitrocellulose membrane.

Note: Representative data are shown (not Lot-specific).

A. ELISA



B. Western Blot



C. Dot Blot/ Microarray



Warranty: Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

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