

CA1026	<b>SOX2</b>	
	<b>Recombinant Protein</b>	
	<b>Prod. No. S2100-20UG</b>	
	<i>For Research Use Only Not intended for use in humans or animals</i>	
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<b>Source</b>	Human
<b>Tested Applications</b>	SDS-PAGE, WB, ELISA, Dot
<b>Sequence</b>	Full length
<b>Epitope tag(s)</b>	none

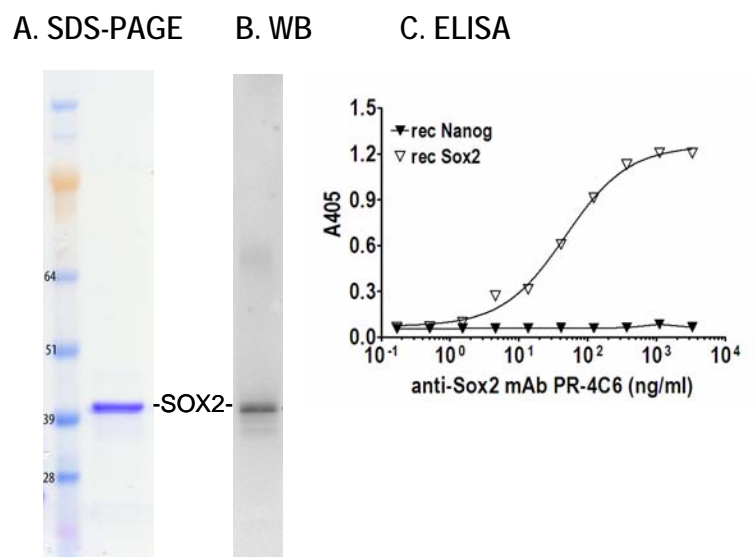
**Background:** SOX2 is a member of the large family of sex determining region Y-related HMG-box (SOX) transcription factors. SOX2 is expressed in embryonic stem cell lines, and decreased levels of SOX2 interfere with self renewal and pluripotency. SOX2 has been identified as one of the key regulators 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.

<b>Size:</b> 20 µg
<b>Description:</b> Recombinant full-length human SOX2 protein
<b>Expression:</b> Recombinant protein was expressed in <i>E. coli</i> and refolded to soluble form.
<b>Formulation:</b> 209 µg/ml (determined by Bradford assay) in 500 mM L-arginine, 300 mM guanidine-HCl, 50 mM HEPES, 5 mM cystamine, 5 mM cysteamine, 5 mM CaCl <sub>2</sub> , 3 mM DTT, pH 7.5 Preservative: none
<b>Purity:</b> >90% by SDS-PAGE
<b>Storage:</b> Store at -80 °C. Avoid multiple freeze-thaws.
<b>Alternative Names:</b> Sex-determining region Y-box 2, SRY-box 2, ANOP3, MCOPS3, MGC2413
<b>Size:</b> 317 residues; 34.3 kDa
<b>Database Links:</b> RefSeq Protein NP_003097.1 RefSeq Gene NM_003106.2 UniProt P48431

### Applications:

- (A) SOX2 Recombinant Protein (1.5 µg) was resolved by SDS-PAGE and stained with Coomassie dye. The apparent molecular weight of SOX2 by electrophoresis is higher than predicted, as reported in the literature.
- (B) Western blot detection of SOX2 Recombinant Protein (60 ng) using 1 µg/ml SOX2 Monoclonal Antibody (PR-4C6).
- (C) Indirect ELISA detection of immobilized SOX2 Recombinant Protein with titrated amounts of SOX2 Monoclonal Antibody (PR-4C6).

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



**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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