## Sox2 (D6D9) XP<sup>®</sup> Rabbit mAb (PE Conjugate)



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## For Research Use Only. Not for Use in Diagnostic Procedures.

| <b>Applications:</b> FC-FP   | Reactivity:<br>H | <b>Sensitivity:</b><br>Endogenous  | <b>Source/Isotype:</b><br>Rabbit | <b>UniProt ID:</b><br>#P48431 | Entrez-Gene Id:<br>6657  |
|--|------------------|--|----------------------------------|-------------------------------|--|
| Product Usage<br>Information   |                  | <b>Application</b> Flow Cytometry (Fixed/P   | ermeabilized)                    |                               | <b>Dilution</b><br>1:50  |
| Storage  |                  | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at $4^{\circ}$ C. Do not aliquot th antibodies. Protect from light. Do not freeze.  |                                  |                               |  |
| Specificity/Sensitivity  |                  | Sox2 (D6D9) XP <sup>®</sup> Rabbit mAb (PE Conjugate) recognizes endogenous levels of Sox2 protein.  |                                  |                               |  |
| Species predicte<br>based on 100% s<br>homology  |                  | Bovine, Dog, Horse   |                                  |                               |  |
| Source / Purification  |                  | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly179 of human Sox2 protein.   |                                  |                               |  |
| Description  |                  | This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Sox2 (D6D9) XP <sup>®</sup> Rabbit mAb #3579.  |                                  |                               |  |
| Embryonic stem cells (ESC) derived from the inner cell mass of the pluripotent capacity and potential for self-renewal (1). Research stranscription factors that includes Oct-4, Sox2, and Nanog forms maintains cells in a pluripotent state (2,3). Chromatin immunoprosox2 and Oct-4 bind to thousands of gene regulatory sites, many and early embryonic development (4,5). siRNA knockdown of eith pluripotency (6). Induced overexpression of Oct-4 and Sox2, alon Klf4 and c-Myc, can reprogram both mouse and human somatic Additional evidence demonstrates that Sox2 is also present in ad rise to some adult epithelial tissues, including several glands, the Sox2 is thought to regulate target gene expression important for tissues (9). |                  |  |                                  |                               | es demonstrate that a set of nscriptional network that attion experiments show that which regulate cell pluripotency ox2 or Oct-4 results in loss of h additional transcription factors to a pluripotent state (7,8). Sultipotent progenitors that give adular stomach, testes, and cervix |
| Background References  |                  | 1. Conley, B.J. et al. (2004) <i>Int J Biochem Cell Biol</i> 36, 555-67.  2. Pesce, M. and Schöler, H.R. (2001) <i>Stem Cells</i> 19, 271-8.  3. Pan, G. and Thomson, J.A. (2007) <i>Cell Res</i> 17, 42-9.  4. Boyer, L.A. et al. (2005) <i>Cell</i> 122, 947-56.  5. Loh, Y.H. et al. (2006) <i>Nat Genet</i> 38, 431-40.  6. Matin, M.M. et al. (2004) <i>Stem Cells</i> 22, 659-68.  7. Takahashi, K. and Yamanaka, S. (2006) <i>Cell</i> 126, 663-76.  8. Okita, K. et al. (2007) <i>Nature</i> 448, 313-7.  9. Arnold, K. et al. (2011) <i>Cell Stem Cell</i> 9, 317-29. |                                  |                               |  |

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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