Sox9 (D8G8H) Rabbit mAb (Alexa Fluor® 488 Conjugate)



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Applications: IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P48436	Entrez-Gene Id: 6662
Product Usage Information		Application Immunofluorescence (Ir Flow Cytometry (Fixed/P			Dilution 1:50 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensiti	ivity	Sox9 (D8G8H) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Sox9 protein.			
Species predicted based on 100% se homology		Mouse, Rat			
Source / Purificati	Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues near the amino terminus of human Sox9 protein.				etic peptide corresponding to
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Sox9 (D8G8H) Rabbit mAb #82630.			
Background		Sox9 is a transcription factor with an HMG-box DNA binding domain that has homology to the HMG domain of the mammalian testis-determining factor, SRY (1). Sox9 regulates several important processes during embryonic development including chondrogenesis, during which it contributes to skeletal formation and digit specification (2,3). Sox9 also coordinates with steroidogenic factor-1 to direct Sertoli cell-specific expression of anti-Mullerian hormone during embryogenesis, thereby contributing to male sex determination (4). In addition, Sox9 is reportedly involved in the maintenance of adult stem cell populations, including multipotent neural stem cells (5), hair follicle stem cells (6), and mammary stem cells (7). Recent interest has focused on the role of Sox9 in tumor biology. For example, research studies have shown that Sox9 expression in lung adenocarcinoma induces a mesenchymal phenotype in tumor cells (8). Other research studies have shown that YAP1 induced upregulation of Sox9 confers cancer stem cell like properties on esophageal cancer cells (9). Moreover, Sox9 expression has been linked with several other tumor types including ovarian, prostate, and pancreatic malignancies (10-12).			
Background References		1. Mertin, S. et al. (1999) <i>Nucleic Acids Res</i> 27, 1359-64. 2. Akiyama, H. et al. (2002) <i>Genes Dev</i> 16, 2813-28. 3. Raspopovic, J. et al. (2014) <i>Science</i> 345, 566-70. 4. De Santa Barbara, P. et al. (1998) <i>Mol Cell Biol</i> 18, 6653-65. 5. Scott, C.E. et al. (2010) <i>Nat Neurosci</i> 13, 1181-9. 6. Kadaja, M. et al. (2014) <i>Genes Dev</i> 28, 328-41. 7. Guo, W. et al. (2012) <i>Cell</i> 148, 1015-28. 8. Capaccione, K.M. et al. (2014) <i>Oncotarget</i> 5, 3636-50. 9. Song, S. et al. (2014) <i>Cancer Res</i> 74, 4170-82. 10. Raspaglio, G. et al. (2014) <i>Gene</i> 542, 173-81. 11. Qin, G.Q. et al. (2014) <i>Hum Pathol</i> 45, 456-63.			

Species Reactivity

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

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse

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