

SOX9 Rabbit monoclonal antibody

Catalog: MB66278

Host: Rabbit

Reactivity: Human, Mouse, Rat

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. Sox9 regulates several important processes during embryonic development including chondrogenesis, during which it contributes to skeletal formation and digit specification. 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. In addition, Sox9 is reportedly involved in the maintenance of adult stem cell populations, including multipotent neural stem cells, hair follicle stem cells, and mammary stem cells. 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. Other research studies have shown that YAP1 induced upregulation of Sox9 confers cancer stem cell like properties on esophageal cancer cells. Moreover, Sox9 expression has been linked with several other tumor types including ovarian, prostate, and pancreatic malignancies.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 70 kDa

Swiss-Prot:

P48436

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

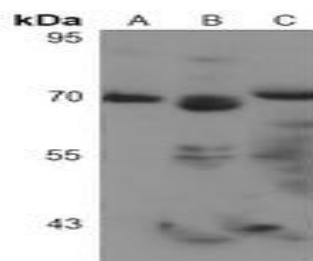
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of SOX9 protein.

DATA:



Western blot analysis of SOX9 expression in C6 (A), NIH3T3 (B), HeLa (C) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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