

SOX9 monoclonal antibody

Catalog: MB66994

Host: Mouse

Reactivity: Human

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:

Mouse IgM. Supplied in crude ascites with 0.01% sodium azide.

Molecular Weight:

~ 70 kDa

Swiss-Prot:

P48436

Purification&Purity:**Applications:**

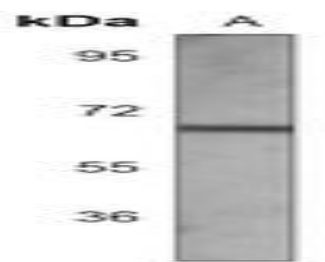
WB (1/1000 - 1/5000)

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 HepG2 (A) whole cell lysates.

Note:

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

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