



Mouse Anti-SOX9 [SOX9/2387]: MC0298, MC0298RTU7

Intended Use: For Research Use Only

Description: 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 Sertolicell-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 (9). Moreover, Sox9 expression has been linked with several other tumor types including ovarian, prostate, and pancreatic malignancies.

Specifications

Clone: SOX9/2387 Source: Mouse Isotype: IgG1k Reactivity: Human

Immunogen: Recombinant human SOX9 protein aa 393-508

Localization:

Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3) Formulation:

Store at 2°-8°C Storage: IHC, WB Applications:

Package:

Description	Catalog No.	Size	
SOX9 Concentrated	MC0298	1 ml	
SOX9 Prediluted	MC0298RTU7	7 ml	

IHC Procedure

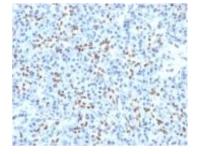
Positive Control Tissue: Ovarian carcinoma

Concentrated Dilution: 50-200

Pretreatment: Tris EDTA pH 9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C

Incubation Time and Temp: 30-60 minutes @ RT

Detection: Refer to the detection system manual * Result should be confirmed by an established diagnostic procedure.



FFPE human Pancreas stained with anti-SOX9 using DAB

References:

- 1. Sox9 and Hif-2α regulate TUBB3 gene expression and affect ovarian cancer aggressiveness. Raspaglio G, et al. Gene. Jun 1;542(2):173-81, 2014.
- 2. Prognostic significance of cytoplasmic SOX9 in invasive ductal carcinoma and metastatic breast cancer. Chakravarty G, et al. Exp Biol Med (Maywood). Feb;236(2):145-55, 2011.
- 3. Sox9 inhibits Wnt signaling by promoting beta-catenin phosphorylation in the nucleus. Topol L, et al. J Biol Chem. Jan 30;284(5):3323-33, 2009.

Doc. 100-MC0298