

Rabbit Anti-SOX9 [MD19R]: RM0322, RM0322RTU7

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 Sertolice-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.

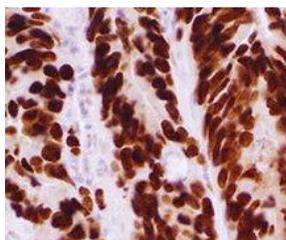
Specifications

Clone: MD19R
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human, mouse
 Localization: Nucleus
 Formulation: Tissue culture supernatant in PBS pH7.5, containing 0.2% BSA, < 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, ICC/IF, WB
 Package:

Description	Catalog No.	Size
SOX9 Concentrated	RM0322	1 ml
SOX9 Prediluted	RM0322RTU7	7 ml

IHC Procedure

Positive Control Tissue: Ovarian carcinoma
 Concentrated Dilution: 50-100
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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 colorectal carcinoma tissue 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.

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Rev. B