# SOX9 (M777J) Mouse mAb

CatalogNo: AH0002

## •Main information

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|---|---|
| **Target** | Sox-9 |
| **Reactivity** | Human,Mouse,Rat,Bovine |
| **Applications** | IHC,ELISA |
| **MW (kDa)** | 56kD (Calculated)<br>70kD (Observed) |
| **Host Species** | Mouse |
| **Isotype** | IgG2b,Kappa |

## •Recommended Dilutions

IHC 1:200-400

ELISA 1:500-5000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011)

## •Detailed information

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| **Specificity** | The antibody can specifically recognize human SOX9 protein. |
| **Storage** | -15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag) |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |
| **Purification** | The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen. |
| **Clonality** | Monoclonal |
| **Clone Number** | M777J |

## •Target Information

**Gene name** SOX9

**Protein Name** Transcription factor SOX-9

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 6662; | P48436; |
| Mouse | 20682; | Q04887; |

**Cellular Localization** Nuclear

**Tissue specificity** Eye,PNS,Testis,

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| **Function** | Disease:Defects in SOX9 are the cause of campomelic dysplasia (CMD1) [MIM:114290]. CMD1 is a rare, often lethal, dominantly inherited, congenital osteochondrodysplasia, associated with male-to-female autosomal sex reversal in two-thirds of the affected karyotypic males. A disease of the newborn characterized by congenital bowing and angulation of long bones, unusually small scapulae, deformed pelvis and spine and a missing pair of ribs. Craniofacial defects such as cleft palate, micrognatia, flat face and hypertelorism are common. Various defects of the ear are often evident, affecting the cochlea, malleus incus, stapes and tympanum. Most patients die soon after birth due to respiratory distress which has been attributed to hypoplasia of the tracheobronchial cartilage and small thoracic cage.,Function:Plays an important role in the normal skeletal development. May regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes.,similarity:Contains 1 HMG box DNA-binding domain., |

## •Validation Data

## •Contact information


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|---|---|
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