Best Tools for immunology Research

# SOX-2 (PTR1367) mouse mAb

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| **Catalog No :** | YM4472 |
| **Reactivity :** | Human;Mouse; |
| **Applications :** | WB;IF;ELISA |
| **Target :** | SOX-2 |
| **Fields :** | >>Hippo signaling pathway;>>Signaling pathways regulating pluripotency of stem cells |
| **Gene Name :** | SOX2 |
| **Protein Name :** | Transcription factor SOX-2 |
| **Human Gene Id :** | 6657 |
| **Human Swiss Prot No :** | P48431 |
| **Mouse Gene Id :** | 20674 |
| **Mouse Swiss Prot No :** | P48432 |
| **Immunogen :** | Recombinant protein |
| **Specificity :** | This antibody detects endogenous levels of SOX-2 protein. |
| **Formulation :** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |
| **Source :** | Mouse, Monoclonal/IgG1,kappa |
| **Dilution :** | WB 1:500-2000.IF 1:100-500.ELISA 1:1000-5000. |
| **Purification :** | Protein G |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |

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**Molecularweight :** 34kD

**Observed Band :** 34kD

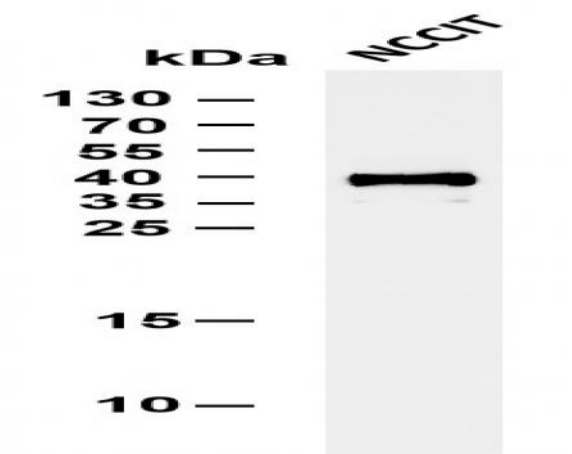
**Background :** SRY-box 2(SOX2) Homo sapiens This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT). [provided by RefSeq, Jul 2008],

**Function :** disease:Defects in SOX2 are the cause of microphthalmia syndromic type 3 (MCOPS3) [MIM:206900]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia). In many cases, microphthalmia/anophthalmia occurs in association with syndromes that include non-ocular abnormalities. MCOPS3 is characterized by the rare association of malformations including uni- or bilateral anophthalmia or microphthalmia, and esophageal atresia with trachoesophageal fistula.,function:Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.,online information:Sox2 entry,PTM:Sumoylation inhibits bin

**Subcellular Location :** Nuclear

**Expression :** Fetal brain,Lung,Retina,

## Products Images




Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-SOX-2 (PTR1367) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: NCCIT Predicted band size: 34kDa Observed band size: 34kDa