Best Tools for immunology Research

SOX-2 (PTR1367) mouse mAb

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)

Molecularweight : 34kD

Observed Band : 34kD

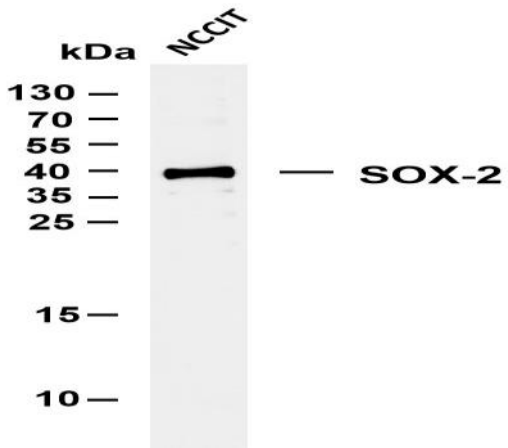
Background : SRY-box 2(SOX2) Homo sapiens This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in 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