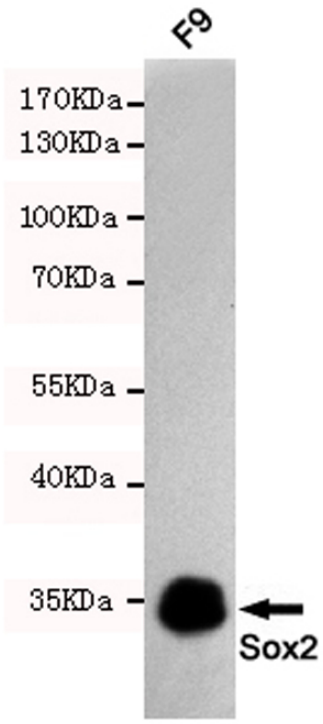
Sox2 mouse mAb

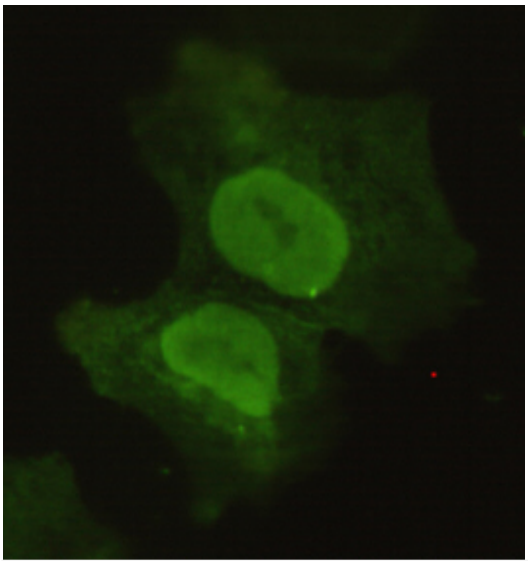
Catalog No	YP-Ab-01069
Isotype	IgG
Reactivity	Mouse
Applications	WB;FC;ICC
Gene Name	sox2
Protein Name	
Immunogen	Purified recombinant mouse Sox2 protein fragments expressed in E.coli
Specificity	This antibody detects endogenous levels of Sox2 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000 icc 1:150
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ANOP3;cb236;Delta EF2a;Icc;MCOPS3;MGC148683;MGC2413;RGD1565646;Sex determining region Y box 2;SOX 2;Sox2;SOX2_HUMAN;SRY (sex determining region Y) box 2;SRY box containing gene 2;SRY related HMG box 2;SRY related HMG box gene 2;SRY-box 2;Transcription factor SOX 2;Transcription factor SOX-2;ysb.
Observed Band	35kD
Cell Pathway	Nucleus speckle . Cytoplasm . Nucleus . Acetylation contributes to its nuclear localization and deacetylation by HDAC3 induces a cytoplasmic delocalization (By similarity). Colocalizes in the nucleus with ZNF208 isoform KRAB-O and tyrosine hydroxylase (TH) (By similarity). Colocalizes with SOX6 in speckles. Colocalizes with CAML in the nucleus (By similarity). Nuclear import is facilitated by XPO4, a protein that usually acts as a nuclear export signal receptor (By similarity). .
Tissue Specificity	Fetal brain,Lung,Retina,
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
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

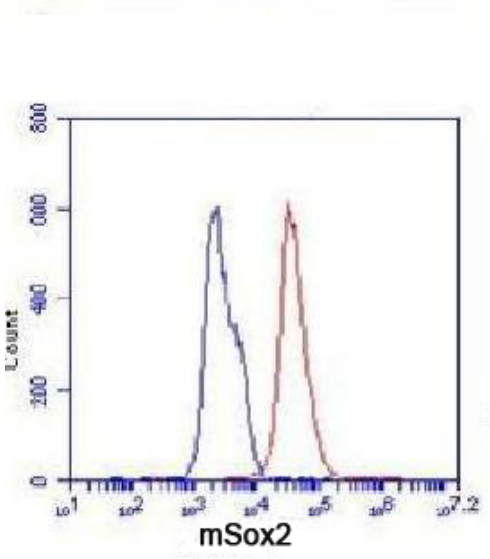
Products Images



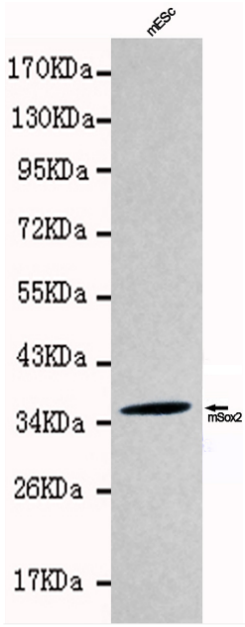
Western blot detection of Sox2 in F9 cell lysates using Sox2 mouse mAb (1:1000 diluted).Predicted band size:35KDa.Observed band size:35KDa.



Immunocytochemistry of COS7 cells using anti-Sox2 mouse mAb diluted 1:150.



Flow Cytometry analysis of F9 cells stained with Sox2 (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.



Western blot detection of Sox2 in mES cell lysates using Sox2 antibody(1:1000 diluted).Predicted band size:35KDa,Observed band size:35KDa.Kindly provided by Dr. Qintong Li at the College of Life Sciences, Sichuan University