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SOX-2 Monoclonal Antibody

| Catalog No | YP-Ab-01022 |
|--------------------|---|
| Isotype | lgG |
| Reactivity | Human |
| Applications | WB;IHC;IF;ELISA |
| Gene Name | SOX2 |
| Protein Name | Transcription factor SOX-2 |
| Immunogen | Purified recombinant fragment of human SOX-2 expressed in E. Coli. |
| Specificity | SOX-2 Monoclonal Antibody detects endogenous levels of SOX-2 protein. |
| Formulation | Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol. |
| Source | Monoclonal, Mouse |
| Purification | Affinity purification |
| Dilution | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | SOX2; Transcription factor SOX-2 |
| Observed Band | |
| 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 |



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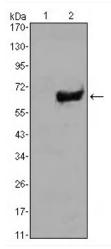
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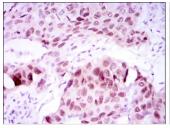
pluripotency.,online information:Sox2 entry,PTM:Sumoylation inhibits bin

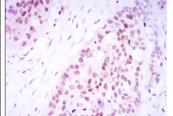
| Background | SRY-box 2(SOX2) Homo sapiens This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance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

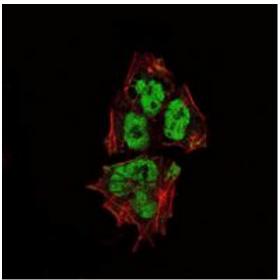


Western Blot analysis using SOX-2 Monoclonal Antibody against HEK293 (1) and SOX2-hlgGFc transfected HEK293 (2) cell lysate.





Immunohistochemistry analysis of paraffin-embedded lung cancer tissues (left) and esophageal cancer tissues (right) with DAB staining using SOX-2 Monoclonal Antibody.



Immunofluorescence analysis of NTERA-2 cells using SOX-2 Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.