

SOX-2

Rabbit Monoclonal antibody(Mab)

Catalog # AD80115

Product Information

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|-------------------|------------------------|
| Application | IHC-P |
| Primary Accession | P48431 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone Names | 526B2H4 |
| Calculated MW | 34310 |

Additional Information

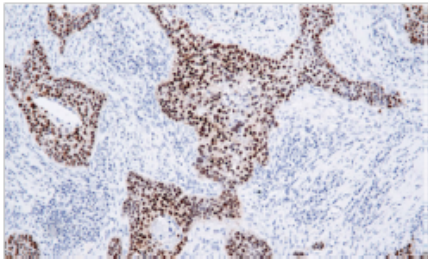
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|-------------|--|
| Gene ID | 6657 |
| Gene Name | SOX2 |
| Other Names | Transcription factor SOX-2, SOX2 |
| Dilution | IHC-P~~Ready-to-use |
| Storage | Maintain refrigerated at 2-8°C. |
| Precautions | SOX-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-------------------|--|
| Name | SOX2 |
| 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 (By similarity). Binds to the proximal enhancer region of NANOG (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed: 18035408). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation (By similarity). May function as a switch in neuronal development (By similarity). |
| Cellular Location | Nucleus speckle {ECO:0000250 UniProtKB:Q05066}. Cytoplasm {ECO:0000250 UniProtKB:Q05738}. Nucleus {ECO:0000250 UniProtKB:Q05738}. Note=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) {ECO:0000250|UniProtKB:Q05066, ECO:0000250|UniProtKB:Q05738}

Images



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.