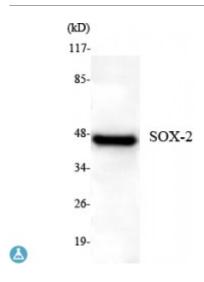


## Anti-SOX-2 antibody



**Description** Mouse monoclonal to SOX-2.

Model STJ98555

**Host** Mouse

**Reactivity** Bovine, Human, Mouse, Rat, Sheep, Swine

**Applications** WB

**Immunogen** Purified recombinant human SOX-2 protein fragments expressed in E.coli.

**Gene ID** <u>6657</u>

Gene Symbol SOX2

**Dilution range** WB 1:1000-1:2000

**Specificity** SOX-2 Monoclonal Antibody detects endogenous levels of SOX-2 protein.

**Purification** Affinity purification

**Note** For Research Use Only (RUO).

**Protein Name** Transcription factor SOX-2

**Clonality** Monoclonal

**Conjugation** Unconjugated

**Formulation** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4,

150 mM NaCl) with 0.2% sodium azide, 50% glycerol.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:11195OMIM:184429

Alternative Names Transcription factor SOX-2

**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. May function as a switch in neuronal development. Downstream SRRT target that mediates the

promotion of neural stem cell self-renewal. Keeps neural cells

undifferentiated by counteracting the activity of proneural proteins and

suppresses neuronal differentiation.

Cellular Localization Nucleus.

Post-translational Modifications

Sumoylation inhibits binding on DNA and negatively regulates the FGF4

transactivation.

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