

Recombinant Mouse Sox2, His-tagged

Cat. No. Sox2-193M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Transcription Factor SOX-2/SOX2-polyR is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Met319) of Mouse SOX2 fused with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	E.coli
Description	Human Sex Determining Region Y Box 2 (Sox2) belongs to a diverse family of structurally-related transcription factors whose primary structure contains a high mobility group box domain. SOX2 is one of the important transcription factors required in induced pluripotent stem cells. SOX2 regulates the expression of multiple genes involved in embryonic development, including FGF-4, YES-1, ZFP206. SOX2 may as a switch in neuronal development, keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation. It has been shown SOX2 can interact with PAX6.
AA Sequence	MYNMMETELKPPGPQQASGGGGGGGNATAAATGGNQKNSPDRVKRPMNAFMVW SRGQRRKMAQEN PKMHNSEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHP DYKYRPRRKTKTLMKKDKYTLP GGLLAPGGNSMASGVGVGAGLGGGLNQRMDSY AHMNGWSNGSYSMMQEQLGYQPGLNAHGAAQ MQPMHRYVVSALQYNSMTS SQTYMNGSPTYSMSYSQQGTPGMALGSMGSVVKSEASSPPVVTSS SHSRAPCQ AGDLRDMISMYLPGAIEVPEPAAPSRLHMAQHYQSGPVPGTAKYGTLP LSHM

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
GENE INFORMATION	
Gene Name	Sox2 SRY-box containing gene 2 [<i>Mus musculus</i>]
Official Symbol	Sox2
Synonyms	SOX2; SRY-box containing gene 2; transcription factor SOX-2; lcc; ysb; Sox-2;
Gene ID	20674
mRNA Refseq	NM_011443
Protein Refseq	NP_035573
Pathway	Dopaminergic Neurogenesis, organism-specific biosystem; PluriNetWork, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;
Function	DNA binding; DNA binding; DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chromatin binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; transcription regulatory region DNA binding; transcription regulatory region sequence-specific DNA binding;

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