

Datasheet for ABIN935801 **SOX2 Protein**



[Go to Product page](#)

Overview

Quantity:	25 µg
Target:	SOX2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence: MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA
QENPKMHNSE ISKRLGAEWK LLETETKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTKTLM
KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG AGVNQRMSY AHMNGWSNGS YSMMQDQLGY
PQHPGLNAHG AAQMOPMHRY DVSALQYNM TSSQTYMNGS PTYSMSYSQQ GTPGMALGSM
GSVVKSEASS SPPVVTSSSH SRAPCQAGDL RDMISMYLPG AEVPEPAAPS RLHMSQHYQS
GPVPGTAING TLPLSHM

Characteristics: Purified recombinant Human Sox2 protein
Expression System: E.coli

Purity: > 95 % pure

Endotoxin Level: < 0.1 ng per µg (1 EU/µg).

Target Details

Target: SOX2

Alternative Name: Sox2 ([SOX2 Products](#))

Target Details

Background: Sox2, also known as sex determining region Y (SRY)-box 2, belongs to a diverse family of structurally-related transcription factors whose primary structure contains a 79-residue DNA-binding domain, called high mobility group (HMG) box. It plays an essential role in maintaining the pluripotency of embryonic stem cells (ESC) and determination of cell fate. Microarray analysis showed that Sox2 regulates the expression of multiple genes involved in embryonic development including FGF4, YES1 and ZFP206. Sox2 acts as a transcriptional activator after forming a ternary complex with Oct3/4 and a conserved non-coding DNA sequence (CNS1) located approximately 2 kb upstream of the RAX promoter. The introduction of Sox2, Oct4, Myc, and Klf4, into human dermal fibroblasts isolated from a skin biopsy of a healthy research fellow was sufficient to confer a pluripotent state upon the fibroblast genome.

Alternative Names: Sox-2, Sox-2 protein, Sox 2 protein, Sex Determining Region Y- box 2 protein, Sox2, Sox-2 protein, Sox 2

Molecular Weight: 34.3 kDa

Pathways: [Dopaminergic Neurogenesis](#), [Sensory Perception of Sound](#), [Stem Cell Maintenance](#), [Cell RedoxHomeostasis](#)

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Supplied as a lyophilized powder.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: 4 °C/-20 °C

Storage Comment: Store at 4 °C until reconstitution. Following reconstitution aliquot and freeze at -20 °C for long term storage.
