

Recombinant Mouse Sox2 Protein, Myc/DDK-tagged

Cat. No. Sox2-6054M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length SRY (sex determining region Y)-box 2 (Sox2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description 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 a similar gene in human 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).

Molecular Mass 34.4 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Sox2 SRY (sex determining region Y)-box 2 [Mus musculus (house mouse)]

Official Symbol Sox2

Synonyms Sox2; SRY (sex determining region Y)-box 2; lc; ys; Sox; lcc; ysb; Sox-2; transcription factor SOX-2; SRY-box containing gene 2

Gene ID 20674

mRNA Refseq NM_011443

Protein Refseq NP_035573

UniProt ID P48432

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