

Active Recombinant Full Length Human SOX9 Protein, C-Flag-tagged

Cat. No. SOX9-175HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SOX9 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the skeletal malformation syndrome campomelic dysplasia, frequently with sex reversal.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	EMSA assay
Molecular Mass	56 kDa
AA Sequence	MNLLDPFMKMTDEQEKGSLGAPSPMTSEDSAGSPCPSGSGSDTENTRPQENTFPK GEPDLKKESEEDKFP VCIREAVSQVLKGYDWTLVPMMPVRVNGSSKNKPHVKRPMN AFMVWAQAARRKLADQYPHLHNAELSKTLG KLWRLNESEKRPFVEEAERLRVQH KKDHPDYKYQPRRRKSVKNGQAEAEATEQTHISPNAIFKALQAD SPHSSSGMSEV HSPGEHSGQSQGPPTPPTPKTDVQPGKADLKREGRPLPEGGRQPPIDFRDVIDIGE

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LSS DVISNIETFDVNEFDQYLPPNGHPGVPATHGQVITYTGSYGISSTAATPASAGHV
WMSKQQAPPPPPQPP QAPPAPQAPPQPQAAPPQQAAPPQQPQAHTLTLSSE
PGQSQRTHIKTEQLSPSHYSEQQHQSPQQIAY SPFNLPHYSPSYPPITRSQYDYTD
HQNSSSYSHAAGQGTGLYSTFTYMNPAQRPMYTPADTSGVPSIP
QTHSPQHWEQPVYTQLTRPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Full Length	Full L.

GENE INFORMATION

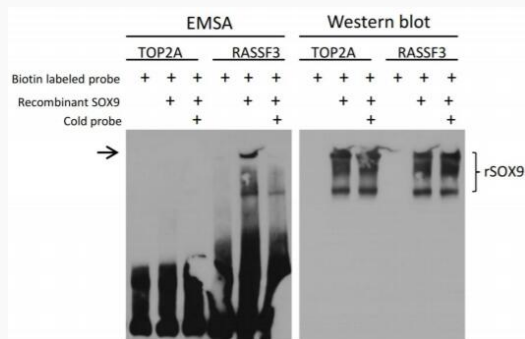
Gene Name	SOX9 SRY-box transcription factor 9 [Homo sapiens (human)]
Official Symbol	SOX9
Synonyms	CMD1; SRA1; CMPD1; SRXX2; SRXY10

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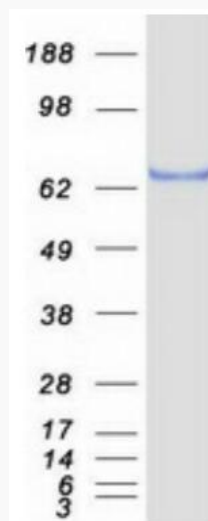
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Gene ID	6662
mRNA Refseq	NM_000346.4
Protein Refseq	NP_000337.1
MIM	608160
UniProt ID	P48436



Recombinant human SOX9 protein directly binds to RASSF3 promoter sequence, but not TOP2A promoter sequence. EMSA was performed with biotin-labeled oligonucleotides for TOP2A and RASSF3 with or without recombinant SOX9. Excess unlabeled oligonucleotides (cold probe) served as controls. Both sequences contain the SOX9 peak center obtained from ChIP-seq experiments. Western blot was performed on the same membrane used for EMSA to detect recombinant human SOX9 protein.



Coomassie blue staining of purified SOX9 protein.

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