

Recombinant Human SP3 protein, GST-tagged

Cat. No. SP3-903H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SP3(1 a.a. - 781 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-781 a.a.
Description	This gene belongs to a family of Sp1 related genes that encode transcription factors that regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. This protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses the transcription of numerous genes. Transcript variants encoding different isoforms have been described for this gene, and one has been reported to initiate translation from a non-AUG (AUA) start codon. Additional isoforms, resulting from the use of alternate downstream translation initiation sites, have also been noted. A related pseudogene has been identified on chromosome 13.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	112.4 kDa
AA Sequence	MTAPEKPVKQEEMAALDVGSGGGGGGGGGHGEYLQQQQQHNGAVAAAAAAQD

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TQPSPLALLAATCSKIGPPSPG DDEEEAAAAAGAPAAAGATGDLASACLGGAPNR
WEVLSATPTTIKDEAGNLVQIPSAATSSGQYVLPLQLNLQNQQ IFSVAPGSDSSNGTV
SSVQYQVIPQIQSADGQQVQIGFTGSSDNNGGINQESSQIQIIPGSNQTLASGTPSAN
IQ NLIPQTGGVQVQGVAGGSSFPQTQVVANVPLGLPGNITFVPINSVDLDSLGLS
GSSQTMTAGINADGHLINTG QAMDSSDNINSERTGERVSPDINETNTDLDLFDVPTSSS
SQLPVTIDSTGILQQNTNSLTSSGQVHSSDLQGNIIQS PVSEETQAQNIQVSTAQP
VVQHLQLQESQQPTSQAQIVQGITPQTIHGVQASGQNISSQALQLNLQLNPGTFLI
QAQTVTPSGQVTWQTFQVQGVQNLQLNLQIQTAAQQITLTPVQTLTLGQVAAGGAF
TSTPVSLSTGQLPNLQTVT VNSIDSAGIQLHPGENADSPADIRIKEEPPDPEEWQLS
GDSTLNTNDLTHLRVQVDEEGDQHQHEGKRLRRVAC TCPNCKEGGGRGTNLGK
KKQHICHIPGCGKVYGKTSHLRAHLRWHSGERPFVCNWMYCGKRFRSDELQRHR
RTH TGEKKFVCPECSKRFMRSDHLAKHIKTHQNKKGIHSSSTVLASVEAARDDTLIT
AGGTTLILANIQQGSVSGIGT VNTSATSNDILTNTIPLQLTVTVSGNETME

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

SP3 Sp3 transcription factor [Homo sapiens]

Official Symbol

SP3

Synonyms

SP3; Sp3 transcription factor; transcription factor Sp3; SPR 2; specificity protein 3;
GC-binding transcription factor Sp3; SPR2; DKFZp686O1631;

Gene ID

6670

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mRNA Refseq	NM_001017371
Protein Refseq	NP_001017371
MIM	601804
UniProt ID	Q02447
Chromosome Location	2q31
Pathway	Regulation of Telomerase, organism-specific biosystem; Selenium Metabolism and Selenoproteins, organism-specific biosystem;
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; chromatin binding; core promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; metal ion binding; protein binding; zinc ion binding;

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