Recombinant Human SP1, His-tagged

Cat. No. SP1-30987TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 645-778 of Human SP1 with N terminal His tag; 134 amino acids, 17kDa.
Species	Human
Source	E.coli
ProteinLength	645-778 a.a.
Description	The protein encoded by this gene is a zinc finger transcription factor that binds to GC-rich motifs of many promoters. The encoded protein is involved in many cellular processes, including cell differentiation, cell growth, apoptosis, immune responses, response to DNA damage, and chromatin remodeling. Post-translational modifications such as phosphorylation, acetylation, glycosylation, and proteolytic processing significantly affect the activity of this protein, which can be an activator or a repressor. Three transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Up-regulated in adenocarcinomas of the stomach (at protein level).
Form	Lyophilised:Reconstitute with 148 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.
Sequences of amino acids	GERPFMCTWSYCGKRFTRSDELQRHKRTHTGEKKFACPEC PKRFMRSDHLSKHIK THQNKKGGPGVALSVGTLPLDSG AGSEGSGTATPSALITTNMVAMEAICPEGIARLA NSGINV MQVADLQSINISGNGF
Sequence Similarities	Belongs to the Sp1 C2H2-type zinc-finger protein family.Contains 3 C2H2-type zinc fingers.

GENE INFORMATION

Gene Name	SP1 Sp1 transcription factor [Homo sapiens]
Official Symbol	SP1
Synonyms	SP1; Sp1 transcription factor; transcription factor Sp1; specificity protein 1;
Gene ID	6667
mRNA Refseq	NM_001251825
Protein Refseq	NP_001238754
MIM	189906
Uniprot ID	P08047
Chromosome Location	12q13.1

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Pathway	Adipogenesis, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem;
Function	DNA binding; HMG box domain binding; double-stranded DNA binding; enhancer binding; histone acetyltransferase binding;

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