SP1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	SP1, Blocking Peptide
Full Product Name	SP1 Blocking Peptide
Product Gene Name	SP1 blocking peptide
Product Synonym Names	SP 1; SP1; Sp1 transcription factor; SP1_HUMAN; Specificity protein 1; Transcription factor Sp1; TSFP 1; TSFP1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SP1 peptide (MBS9617287) is used for blocking the activity of SP1 antibody (MBS9601745)
Molecular Weight	80,693 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (53773979..53810230). Location: 12q13.1
OMIM	189906
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for SP1 blocking peptide	Blocking/Control
Related Product Information for SP1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of SP1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SP1 purchase	MBS9617287 is a blocking peptide targeting SP1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SP1. It may not necessarily be applicable to this product.

NCBI GI #	352962149
NCBI GeneID	6667
NCBI Accession #	NP_001238754.1
UniProt Primary Accession #	P08047
UniProt Secondary Accession #	Q86TN8; Q9H3Q5; Q9NR51; Q9NY21; Q9NYE7; E4Z9M7; G5E9M8

UniProt Related Accession #	P08047
GenBank Nucleotide #	NM_001251825.1
NCBI Official Full Name	transcription factor Sp1 isoform c
NCBI Official Synonym Full Names	Sp1 transcription factor
NCBI Official Symbol	SP1
UniProt Protein Name	Transcription factor Sp1
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	SP1
UniProt Synonym Gene Names	TSFP1
UniProt Entry Name	SP1_HUMAN
NCBI Protein Information	transcription factor Sp1; specificity protein 1
NCBI Summary for SP1	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. [provided by RefSeq, Oct 2011]
UniProt Comments for SP1	SP1: a transcription factor of the Sp1 C2H2-type zinc-finger protein family. Phosphorylated and activated by MAPK. Dephosphorylation by PTEN inhibits DNA binding. Binds to p38 in the nucleus. Interacts with Huntingtin and TAFII130. Transcriptional activity of SP1 and TAFII130 disrupted in early Huntingtin's Disease. Protein type: DNA-binding; Transcription factor; C2H2-type zinc finger protein Chromosomal Location of Human Ortholog: 12q13.1 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein C-terminus binding; histone acetyltransferase binding; protein binding; protein homodimerization activity; DNA binding; sequence-specific DNA binding; metal ion binding; histone deacetylase binding; double-stranded DNA binding; bHLH transcription factor binding; transcription factor binding; transcription factor activity Biological Process: transcription initiation from RNA polymerase II promoter; ossification; embryonic placenta development; transcription, DNA-dependent; viral reproduction; megakaryocyte differentiation; embryonic skeletal development; positive regulation of transcription, DNA-dependent; embryonic process involved in female pregnancy; rhythmic process; cellular lipid metabolic process; enucleate erythrocyte differentiation; liver development; trophectodermal cell differentiation; regulation of transcription, DNA-dependent; transforming growth factor beta receptor signaling pathway; gene expression; positive regulation of transcription from RNA polymerase II promoter; embryonic camera-type eye morphogenesis; lung development
Research Articles on SP1	**1.** The present study identified a proximal core sequence in the MGARP promoter that is composed of two enriched Sp1 binding motifs and established Sp1 as one major MGARP transactivator.
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