SP1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SP1, Monoclonal Antibody
Full Product Name	SP1 (Transcription Factor Sp1, TSFP1) (MaxLight 405)
Product Gene Name	anti-SP1 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1A5
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SP1. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	75,824 Da
OMIM	189906
3D Structure	ModBase 3D Structure for P08047
Immunogen	Partial recombinant corresponding to aa89-199 from human SP1 (NP_612482) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GTGELDLTATQLSQGANGWQIISSSSGATPTSKEQSGSSTNGSNGSESSKNRTVSGGQYVVAAAPNLQNQQVLTGLPGVMPNIQYQVIPQFQTVDGQQ
Conjugate	MaxLight405
Product Categories/Family for anti-SP1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SP1 antibody	FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-SP1 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-SP1 antibody	MBS6192802 is an antibody targeting SP1. Also known as SP1 (Transcription Factor Sp1, TSFP1) (MaxLight 405). Reactive in Human, Mouse. Host: M

Other Notes	Small volumes of anti-SP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar 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

ADDITIONAL DETAILS

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

NCBI GI #	38372901
NCBI GeneID	6667
NCBI Accession #	NP_612482
UniProt Primary Accession #	P08047
UniProt Secondary Accession #	Q86TN8; Q9H3Q5; Q9NR51; Q9NY21; Q9NYE7; E4Z9M7; G5E9M8
UniProt Related Accession #	P08047
GenBank Nucleotide #	NM_138473
NCBI Official Full Name	transcription factor Sp1 isoform a
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
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, Nov 2014]

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.** Results provide first findings for the SP1-related transcriptional regulation of ADAMTS3 and collagen genes in osteosarcoma cell lines.
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