SS18 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SS18, Monoclonal Antibody
Full Product Name	SS18 (Protein SSXT, Protein SYT, Synovial Sarcoma Translocated to X Chromosome Protein, SSXT, SYT, MGC116875) (MaxLight 550)
Product Gene Name	anti-SS18 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1C8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SS18.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	45,929 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (23596217..23670611, complement). Location: 18q11.2
OMIM	600192
3D Structure	ModBase 3D Structure for Q15532
Immunogen	Partial recombinant corresponding to aa116-217 from human SS18 (NP_001007560) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	APHMQNQMNGQMPGPNHMPMQGPGPNQLNMTNSSMNMPSSSHGSMGGYNHSVPSSQSMPVQNQMTMSQGQPMGNYGPRPNMSMQPNQGPMM
Conjugate	MaxLight550
Product Categories/Family for anti-SS18 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SS18 antibody	FLISA, Western Blot (WB)
Application Notes for anti-SS18 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-SS18 antibody	Appears to function synergistically with RBM14 as a transcriptional coactivator. Isoform 1 and isoform 2 function in nuclear receptor coactivation. Isofor 2 function in general transcriptional coactivation.
Other Notes	Small volumes of anti-SS18 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 apply.
Searchable Terms for SS18 purchase	MBS6214197 is an antibody targeting SS18. Also known as SS18 (Protein SSXT, Protein SYT, Synovial Sarcoma Translocated to X Chromosome Pro MGC116875) (MaxLight 550). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SS18. It may not necessarily be applicable to this product.

NCBI GI #	56117846
NCBI GeneID	6760
NCBI Accession #	NP_001007560.1
UniProt Primary Accession #	Q15532
UniProt Secondary Accession #	Q16404; Q4VAX1; Q9BXC6; B0YJ95
UniProt Related Accession #	Q15532
GenBank Nucleotide #	NM_001007559
NCBI Official Full Name	protein SSXT isoform 1
NCBI Official Synonym Full Names	synovial sarcoma translocation, chromosome 18
NCBI Official Symbol	SS18
NCBI Official Synonym Symbols	SYT; SSXT
UniProt Protein Name	Protein SSXT
UniProt Synonym Protein Names	Protein SYT; Synovial sarcoma translocated to X chromosome protein
Protein Family	Protein
UniProt Gene Name	SS18
UniProt Synonym Gene Names	SSXT; SYT
UniProt Entry Name	SSXT_HUMAN
NCBI Protein Information	protein SSXT; synovial sarcoma, translocated to X chromosome; synovial sarcoma translocated to X chromosome protein

UniProt Comments for SS18	SS18: Appears to function synergistically with RBM14 as a transcriptional coactivator. Isoform 1 and isoform 2 function in nuclear receptor coactivation. Isoform 1 and isoform 2 function in general transcriptional coactivation. A chromosomal aberration involving SS18 may be a cause of synovial sarcoma. Translocation t(X;18)(p11.2;q11.2). The translocation is specifically found in more than 80% of synovial sarcoma. The fusion products SSXT-SSX1 or SSXT-SSX2 are probably responsible for transforming activity. Heterogeneity in the position of the breakpoint can occur (low frequency). Belongs to the SS18 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; Transcription, coactivator/corepressor; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: cytoplasmic microtubule; nucleus Molecular Function: protein binding; ligand-dependent nuclear receptor transcription coactivator activity Biological Process: response to drug; transcription, DNA-dependent; cell morphogenesis; ephrin receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; microtubule cytoskeleton organization and biogenesis
Research Articles on SS18	**1.** Studies show that in the 2 synovial sarcoma cell lines used, the fusion of SS18 with SSX leads to assembly of aberrant BAF complexes that become targeted to the Sox2 locus, with loss of repressive H3K27me3 marks, driving Sox2 expression and proliferation of these cells.
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