SP100 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SP100, Monoclonal Antibody
Full Product Name	SP100 (SP100 Nuclear antigen, DKFZp686E07254, FLJ00340, FLJ34579) (MaxLight 750)
Product Gene Name	anti-SP100 antibody
Product Synonym Names	SP100 Nuclear antigen; DKFZp686E07254; FLJ00340; FLJ34579
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	200
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes SP100.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	96kDa
OMIM	604585
3D Structure	ModBase 3D Structure for P23497
Immunogen	SP100 (NP_003104, 1aa-98aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAGGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDDRLLYDIVFKHFKRNKVEISNAIKKTFPFLEGLRDRDLITNKMFEDSQDSCRN
Conjugate	MaxLight750
Product Categories/Family for anti-SP100 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-SP100 antibody	Western Blot (WB)
Application Notes for anti-SP100 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SP100 antibody	MBS6240712 is an antibody targeting SP100. Also known as SP100 (SP100 Nuclear antigen, DKFZp686E07254, FLJ00340, FLJ34579) (MaxLight 750). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant SP100.

Other Notes	Small volumes of anti-SP100 antibody 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SP100. It may not necessarily be applicable to this product.

NCBI GI #	19923236
NCBI GeneID	6672
NCBI Accession #	NP_003104
UniProt Primary Accession #	P23497
UniProt Related Accession #	P23497
GenBank Nucleotide #	NM_003113.3
NCBI Official Full Name	nuclear autoantigen Sp-100 isoform 2
NCBI Official Synonym Full Names	SP100 nuclear antigen
NCBI Official Symbol	SP100
NCBI Official Synonym Symbols	lysp100b
UniProt Protein Name	Nuclear autoantigen Sp-100
UniProt Synonym Protein Names	Nuclear dot-associated Sp100 protein; Speckled 100 kDa
Protein Family	Nuclear autoantigen
UniProt Gene Name	SP100
UniProt Entry Name	SP100_HUMAN
NCBI Protein Information	nuclear autoantigen Sp-100
NCBI Summary for SP100	This gene encodes a subnuclear organelle and major component of the PML (promyelocytic leukemia)-SP100 nuclear bodies. PML and SP100 are covalently modified by the SUMO-1 modifier, which is considered crucial to nuclear body interactions. The encoded protein binds heterochromatin proteins and is thought to play a role in tumorigenesis, immunity, and gene regulation. Alternatively spliced variants have been identified for this gene; one of which encodes a high-mobility group protein. [provided by RefSeq, Aug 2011]
UniProt Comments for SP100	SP100: May play a role in the control of gene expression. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor; DNA-binding Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: nucleoplasm; PML body; Mre11 complex; cytoplasm; nucleolus; nucleus Molecular Function: identical protein binding; protein domain specific binding; protein binding; protein homodimerization activity; DNA binding; transcription coactivator activity; chromatin binding; kinase binding; transcription factor binding; transcription corepressor activity Biological Process: retinoic acid receptor signaling pathway; negative regulation of protein export from nucleus; response to retinoic acid; transcription, DNA-dependent; viral reproduction; negative regulation of transcription factor activity; positive regulation of transcription, DNA-dependent; cytokine and chemokine mediated signaling pathway; negative regulation of cell motility; negative regulation of transcription from RNA polymerase II promoter; regulation of angiogenesis; negative regulation of DNA binding; chromatin remodeling; negative regulation of viral transcription; DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator; response to cytokine stimulus; positive regulation of transcription factor activity; negative regulation of transcription, DNA-dependent; telomere maintenance

Research Articles on SP100	**1.** the ND10 bodies become viral replication compartments, and ICP0, a viral E3 ligase, degrades both PML and SP100. The amounts of PML and SP100 and the number of ND10 structures increase in cells exposed to IFN-beta.
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