

Recombinant Human SP100

Cat. No. SP100-30988TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SP100, isoform A with N terminal proprietary tag, 78.87kDa.
Species	Human
Source	Wheat Germ
ProteinLength	480 amino acids
Description	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.
Molecular Weight	78.870kDa inclusive of tags
Tissue specificity	Widely expressed. Sp100-B is expressed only in spleen, tonsil, thymus, mature B-cell line and some T-cell line, but not in brain, liver, muscle or non-lymphoid cell lines.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAGGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTE DQGVDDRLLYDIVFK HFKRNKVEISNAIKKTFPFLEGLRD RDLITNKMFEDESQDSCRNLVPVQRVVYNVLSE LEKTFNLP VLEALFSDVNMQEYPDLIHIYKGFENVIHDKLPLQESEEE EREERSGLQ LSLEQGTGENSFRSLTWPPSGSPSHAGTTPP ENGLSEHPCETEQINAKRKDTTSDK DDSLGSQQTNEQCAQ KAEPTESCEQIAVQVNNGDAGREMPCLPCDEESPEAELH NHGIQINSCSVRLVDIKKEKPFNSKVEQCAQARTHNNQA SDIIVISSEDSEGSTDVD EPLEVFISAPRSEPVINNDNPL ESNDEKEGQEATCSRQIVPEPMDFRKLSTFRESF KKRVI GQDHDFSESSEEEAPAEASSGALRSKHGEKAPMTSRSTST WRIPSRKRRF SSSDFSDLSNGEELQETCSSSLRRGSGKED
Sequence Similarities	Contains 2 HMG box DNA-binding domains.Contains 1 HSR domain.Contains 1 SAND domain.

GENE INFORMATION

Gene Name	SP100 SP100 nuclear antigen [Homo sapiens]
Official Symbol	SP100
Synonyms	SP100; SP100 nuclear antigen; nuclear antigen Sp100; nuclear autoantigen Sp-100;
Gene ID	6672
mRNA Refseq	NM_001080391
Protein Refseq	NP_001073860

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MIM	604585
Uniprot ID	P23497
Chromosome Location	2q37.1
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; Immune System, organism-specific biosystem; Interferon Signaling, organism-specific biosystem;
Function	chromo shadow domain binding; identical protein binding; kinase binding; protein binding; protein domain specific binding;

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