

Rabbit anti-Human SP100 Polyclonal Antibody | anti-SP100 antibody

SP100 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324909	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SP100; Polyclonal Antibody; SP100 Antibody; DKFZp686E07254; FLJ00340; FLJ34579; Lysp100b; Nuclear antigen Sp100; Nuclear autoantigen Sp 100; Nuclear autoantigen Sp-100; Nuclear autoantigen Sp100; Nuclear dot associated Sp100 protein; Nuclear dot-associated Sp100 protein; SP 100; SP100 HMG nuclear autoantigen; SP100 nuclear antigen; SP100_HUMAN; Speckled 100 kDa; anti-SP100 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	SP100 antibody detects endogenous levels of total SP100
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	885
Applicable Applications for anti-SP100 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus > PML Body. Found in the nuclear body, also known as nuclear domain 10 (ND10), PML oncogenic domain (POD), nuclear dots (ND) and KR body. The nuclear body is a nucleoplasmic structure of punctate shape, which varies in size and number. Induction by interferon and may be cell cycle stages modulate the subnuclear localization of the isoforms.
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.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA324909 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from HT29 cells, using SP100 antibody.



IF (Immunofluorescence)

AAA324909 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SP100 antibody

Function: Together with PML, this tumor suppressor is a major constituent of the PML bodies, a subnuclear organelle involved in a large number of physiological processes including cell growth, differentiation and apoptosis. Functions as a transcriptional coactivator of ETS1 and ETS2 according to PubMed:11909962. Under certain conditions, it may also act as a corepressor of ETS1 preventing its binding to DNA according to PubMed:15247905. Through the regulation of ETS1 it may play a role in angiogenesis, controlling endothelial cell motility and invasion. Through interaction with the MRN complex it may be involved in the regulation of telomeres lengthening. May also regulate TP53-mediated transcription and through CASP8AP2, regulate FAS-mediated apoptosis. Also plays a role in infection by viruses, including human cytomegalovirus and Epstein-Barr virus, through mechanisms that may involve chromatin and/or transcriptional regulation.

Subunit Structure: Homodimer; isoforms are able to heterodimerize. Interacts with members of the HP1 family of nonhistone chromosomal protein, such as CBX5 and CBX3 via the PxVxL motif. Interacts with ETS1; the interaction is direct and modulates ETS1 transcriptional activity. Interacts with the MRN complex which is composed of two heterodimers RAD50/MRE11 associated with a single NBN; recruits the complex to PML-related bodies. Interacts with HIPK2; positively regulates TP53-dependent transcription. Interacts with CASP8AP2; may negatively regulate CASP8AP2 export from the nucleus to the cytoplasm. Interacts with Epstein-Barr virus EBNA-LP; this interaction is important for EBNA-LP coactivator activity. Interacts with human cytomegalovirus/HHV-5 protein UL123; may play a role in infection by the virus.

Post-translational Modifications: Sumoylated. Sumoylation depends on a functional nuclear localization signal but is not necessary for nuclear import or nuclear body targeting. Sumoylated. Sumoylated with SUMO1. Sumoylation depends on a functional nuclear localization signal but is not necessary for nuclear import or nuclear body targeting. Sumoylation may stabilize the interaction with CBX5.

Similarity: The HSR domain is important for the nuclear body targeting as well as for the dimerization. Contains one Pro-Xaa-Val-Xaa-Leu (PxVxL) motif, which is required for interaction with chromoshadow domains. This motif requires additional residues -7, -6, +4 and +5 of the central Val which contact the chromoshadow domain.

NCBI AND UNIPROT INFORMATION

NCBI GI #	122939208
NCBI GeneID	6672
NCBI Accession #	NP_001073860.1
NCBI GenBank Nucleotide #	NM_001080391.1
UniProt Accession #	P23497; O75450; Q13343; Q8TE34; Q96F70; Q96T24; Q96T95; B4DDX5; B8ZZD8; E7EUA7; E9PH61; F8WFE2
Molecular Weight	Predicted: 101 kDa

NCBI Official Full Name	nuclear autoantigen Sp-100 isoform 1
NCBI Official Synonym Full Names	SP100 nuclear antigen
NCBI Official Symbol	SP100
NCBI Official Synonym Symbols	lysp100b
NCBI Protein Information	nuclear autoantigen Sp-100
UniProt Protein Name	Nuclear autoantigen Sp-100
UniProt Gene Name	SP100

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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