

Rabbit anti-Human SP140 Polyclonal Antibody | anti-SP140 antibody

SP140 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289315	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

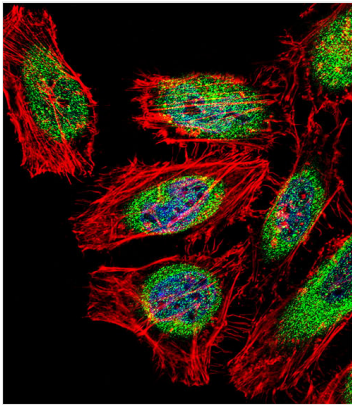
PRODUCT SYNONYMS

SP140; Polyclonal Antibody; SP140 Antibody (Center); Nuclear body protein SP140 {ECO:0000312|HGNC:HGNC:17133}; Lymphoid-restricted homolog of Sp100; LYSp100; Nuclear autoantigen Sp-140; Speckled 140 kDa; SP140 HGNC:17133); anti-SP140 antibody

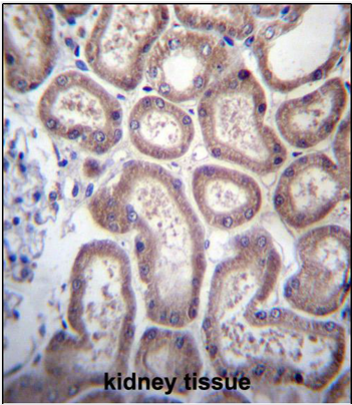
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This SP140 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 272-301 amino acids from the Central region of human SP140.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	272-301
Sequence Length	172
Applicable Applications for anti-SP140 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Component of the nuclear body, also known as nuclear domain 10, PML oncogenic domain, and KR body (PubMed:8910577). May be involved in the pathogenesis of acute promyelocytic leukemia and viral infection (PubMed:8910577). May play a role in chromatin-mediated regulation of gene expression although it does not bind to histone H3 tails (PubMed:24267382).
Cellular Location	Nucleus. Nucleus, PML body Cytoplasm. Note=Localized to nuclear structures termed LANDS, for LYSp100-associated nuclear domains. LANDS are globular, electron-dense structures most often found in the nucleoplasm, but also found at the nuclear membrane and in the cytoplasm, suggesting that these structures may traffic between the cytoplasm and the nucleus (PubMed:8695863). Also colocalizes with PML in a subset of PML nuclear bodies (PubMed:8910577)
Tissue Location	High levels in spleen and peripheral blood leukocytes, much lower levels in tonsils, thymus, prostate, ovary, small intestine, and colon (PubMed:8695863, PubMed:8910577). Very low levels in heart, brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas (PubMed:8910577). Not detected in brain, liver and muscle (PubMed:8695863).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

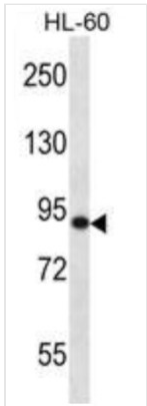
IMAGES



IF (Immunofluorescence)
Fluorescent confocal image of HeLa cell stained with SP140 Antibody (Center) (AAA289315). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with SP140 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). SP140 immunoreactivity is localized to Cytoplasm and Nucleus significantly.



IHC (Immunohistochemistry)
SP140 Antibody (Center) (AAA289315) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SP140 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
SP140 Antibody (Center) (AAA289315) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the SP140 antibody detected the SP140 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SP140 antibody	Component of the nuclear body, also known as nuclear domain 10, PML oncogenic domain, and KR body. May be involved in the pathogenesis of acute promyelocytic leukemia and viral infection.
Product Categories/Family for anti-SP140 antibody	Immunology
References	Slager, S.L., et al. Cancer Epidemiol. Biomarkers Prev. 19(4):1098-1102(2010) Di Bernardo, M.C., et al. Nat. Genet. 40(10):1204-1210(2008) Madani, N., et al. J. Virol. 76(21):11133-11138(2002) Bloch, D.B., et al. J. Biol. Chem. 271(46):29198-29204(1996) Dent, A.L., et al. Blood 88(4):1423-1426(1996)

NCBI AND UNIPROT INFORMATION

NCBI GI #	52487277
NCBI GeneID	11262
NCBI Accession #	NP_001005176.1; NP_001265380.1; NP_001265381.1; NP_001265382.1; NP_009168.4

NCBI GenBank Nucleotide #	NM_001005176.2
UniProt Accession #	Q13342; Q0VGE5; Q13341; Q3KR17; Q4ZG66; Q53TG1; Q6NSG4; Q92881; Q96TG3; E7ESH9; E7EUR5; E9PFJ6
Molecular Weight	Calculated MW: 98223
NCBI Official Full Name	nuclear body protein SP140 isoform 2
NCBI Official Synonym Full Names	SP140 nuclear body protein
NCBI Official Symbol	SP140
NCBI Official Synonym Symbols	LYSP100; LYSP100-A; LYSP100-B
NCBI Protein Information	nuclear body protein SP140
UniProt Protein Name	Nuclear body protein SP140
UniProt Gene Name	SP140
UniProt Synonym Gene Names	LYSp100
UniProt Entry Name	SP140_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/sp140-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/289315>