

SP140 Rabbit pAb

SP140 Rabbit pAb Catalog # AP56573

Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession
Host
Clonality
Polyclonal
Calculated MW
Physical State
Q13342
Rabbit
Polyclonal
98223
Liquid

Immunogen KLH conjugated synthetic peptide derived from human SP140

Epitope Specificity 221-320/867

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus. Cytoplasm. 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.

SIMILARITY Contains 1 bromo domain. Contains 1 HSR domain. Contains 1 PHD-type zinc

finger. Contains 1 SAND domain.

SUBUNIT Interacts with PIN1.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions SP140 is an 867 amino acid cytoplasmic and nuclear protein that is highly

expressed in spleen and peripheral blood leukocytes. SP140 is a component of the nuclear body that may be involved in trafficking between the nucleus and the cytoplasm. SP140 is induced by interferons and contains a bromo domain, a HSR domain, a PHD-type zinc finger and a SAND domain. It is thought that SP140 may participate in the pathogenesis of acute

promyelocytic leukemia and viral infection. SP140 is expressed as three isoforms produced by alternative splicing and are designated isoform

LYSp100-A, isoform LYSp100-B and isoform SP140.

Additional Information

Gene ID 11262

Other Names Nuclear body protein SP140 {ECO:0000312 | HGNC:HGNC:17133},

Lymphoid-restricted homolog of Sp100, LYSp100, Nuclear autoantigen Sp-140,

Speckled 140 kDa, SP140 (<u>HGNC:17133</u>)

Target/Specificity High levels in spleen and peripheral blood leukocytes, much lower levels in

thymus, prostate, ovary, small intestine, and colon. Very low levels in heart,

brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas.

Dilution IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

0-10000

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name SP140 (<u>HGNC:17133</u>)

Function Component of the nuclear body, also known as nuclear domain 10, PML

oncogenic domain, and KR body (PubMed:<u>8910577</u>). May be involved in the

pathogenesis of acute promyelocytic leukemia and viral infection

(PubMed:<u>8910577</u>). May play a role in chromatin-mediated regulation of gene expression although it does not bind to histone H3 tails (PubMed:<u>24267382</u>).

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).

Background

SP140 is an 867 amino acid cytoplasmic and nuclear protein that is highly expressed in spleen and peripheral blood leukocytes. SP140 is a component of the nuclear body that may be involved in trafficking between the nucleus and the cytoplasm. SP140 is induced by interferons and contains a bromo domain, a HSR domain, a PHD-type zinc finger and a SAND domain. It is thought that SP140 may participate in the pathogenesis of acute promyelocytic leukemia and viral infection. SP140 is expressed as three isoforms produced by alternative splicing and are designated isoform LYSp100-A, isoform LYSp100-B and isoform SP140.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.