

# **SP140 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56573

# **Specification**

# **SP140 Polyclonal Antibody - Product Information**

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

Primary Accession
Reactivity
Dog
Host
Clonality
Calculated MW
Physical State

O13342
Rabbit
Rabbit
Polyclonal
20 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human SP140

Epitope Specificity 221-320/867

Isotype 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.

## SP140 Polyclonal Antibody - 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 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=17133" target="blank">HGNC:17133</a>)

### **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**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_ICC">ICC~~N/A</span><br \> <span class = "dilution\_E">E~~N/A</span>

#### **Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

### 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.

## **SP140 Polyclonal Antibody - Protein Information**

Name SP140 (HGNC:17133)

#### **Function**

Component of the nuclear body, also known as nuclear domain 10, PML oncogenic domain, and KR body (PubMed:<a href="http://www.uniprot.org/citations/8910577" target="\_blank">8910577</a>). May be involved in the pathogenesis of acute promyelocytic leukemia and viral infection (PubMed:<a href="http://www.uniprot.org/citations/8910577" target="\_blank">8910577</a>). May play a role in chromatin-mediated regulation of gene expression although it does not bind to histone H3 tails (PubMed:<a href="http://www.uniprot.org/citations/24267382" target=" blank">24267382</a>).

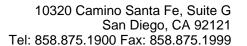
### **Cellular Location**

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).

# **SP140 Polyclonal Antibody - Protocols**





Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SP140 Polyclonal Antibody - Images