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SP140 Rabbit pAb

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Catalog # AP56573

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q13342
Predicted	Dog, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98223
Physical State	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.
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 (HGNC:17133)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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 (HGNC:17133)
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).

Background

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