

SPRED1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56794

Specification

SPRED1 Polyclonal Antibody - Product Information

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

Primary Accession <u>Q7Z699</u>

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
So KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human SPRED1

Epitope Specificity 301-400/444

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane. Membrane > caveola.

Nucleus. Localized in cholesterol-rich

membrane raft/caveola fractions.

SIMILARITY Contains 1 KBD domain. Contains 1 SPR (sprouty) domain. Contains 1 WH1 domain.

Post-translational modifications Phosphorylated on tyrosine.

DISEASE

Defects in SPRED1 are the cause of Legius syndrome (LEGIUSS) [MIM:611431]. It is a disorder characterized mainly by cafe and

disorder characterized mainly by cafe au lait macules without neurofibromas or other tumor manifestations of

neurofibromatosis type 1, axillary freckling, and macrocephaly. Additional clinical manifestations include Noonan-like

facial dysmorphism, lipomas, learning

disabilities and attention deficit-hyperactivity.

Important Note

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

therapeutic or diagnostic applications.

Background Descriptions

The protein encoded by this gene is a member of the Sprouty family of proteins and is phosphorylated by tyrosine kinase in response to several growth factors. The encoded protein can act as a homodimer or as a heterodimer with SPRED2 to regulate activation of the MAP kinase cascade. Defects in this gene are a cause of neurofibromatosis type 1-like syndrome (NFLS). [provided by RefSeq, Jul 2008]

SPRED1 Polyclonal Antibody - Additional Information



Gene ID 161742

Other Names

Sprouty-related, EVH1 domain-containing protein 1, Spred-1, hSpred1, SPRED1

Target/Specificity

Weakly expressed in embryonic cell line (HEK-293).

Dilution

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<span class ="dilution_WB">WB~~1:1000</span><br \><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_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
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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.

SPRED1 Polyclonal Antibody - Protein Information

Name SPRED1

Function

Tyrosine kinase substrate that inhibits growth-factor- mediated activation of MAP kinase (By similarity). Negatively regulates hematopoiesis of bone marrow (By similarity). Inhibits fibroblast growth factor (FGF)-induced retinal lens fiber differentiation, probably by inhibiting FGF-mediated phosphorylation of ERK1/2 (By similarity). Attenuates actin stress fiber formation via inhibition of TESK1-mediated phosphorylation of cofilin (PubMed:18216281). Inhibits TGFB-induced epithelial-to-mesenchymal transition in lens epithelial cells (By similarity).

Cellular Location

Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Nucleus Note=Localized in cholesterol-rich membrane raft/caveola fractions

Tissue Location

Weakly expressed in embryonic cell line HEK293.

SPRED1 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SPRED1 Polyclonal Antibody - Images



