abcam

Product datasheet

Anti-SPRED1 antibody ab77079

7 References 4 图像

概述

产品名称	Anti-SPRED1抗体
描述	**兔多克隆抗体**to SPRED1
宿主	Rabbit
特异性	ab77079 is predicted to have no cross-reactivity to SPRED2 or SPRED3.
经测试应用	**适用于:** WB, ICC/IF, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic 14 amino acid peptide from near the center of human SPRED1 (NP_689807).
阳性对照	Human brain tissue lysate. This antibody gave a positive result in IF in the following Formaldehyde fixed cell line: A549.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab77079于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 50 kDa.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能 Tyrosine kinase substrate that inhibits growth-factor-mediated activation of MAP kinase. Negatively regulates hematopoiesis of bone marrow.

组织特异性 Weakly expressed in embryonic cell line (HEK-293).

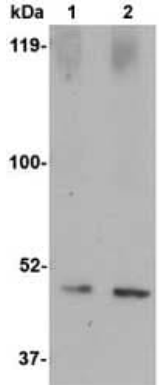
疾病相关 Defects in SPRED1 are the cause of Legius syndrome (LEGIUSS) [MIM:611431]. It is a disorder characterized mainly by cafe au lait macules without neurofibromas or other tumor manifestations of neurofibromatosis type 1, axillary freckling, and macrocephaly. Additional clinical manifestations include Noonan-like facial dysmorphism, lipomas, learning disabilities and attention deficit-hyperactivity.

序列相似性 Contains 1 KBD domain.
Contains 1 SPR (sprouty) domain.
Contains 1 WH1 domain.

翻译后修饰 Phosphorylated on tyrosine.

细胞定位 Cell membrane. Membrane > caveola. Nucleus. Localized in cholesterol-rich membrane raft/caveola fractions.

图片



Western blot - Anti-SPRED1 antibody (ab77079)

Lane 1 : Anti-SPRED1 antibody (ab77079) at 1 µg/ml

Lane 2 : Anti-SPRED1 antibody (ab77079) at 2 µg/ml

All lanes : Human brain tissue lysate

Lysates/proteins at 15 µg per lane.

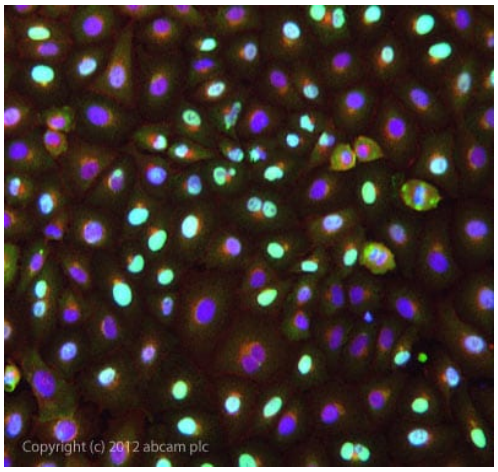
Predicted band size: 50 kDa

Observed band size: 50 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPRED1 antibody (ab77079)

IHC image of ab77079 staining in human cerebral cortex formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab77079, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-SPRED1 antibody (ab77079)

ab77079 stained A549 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab77079 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit (**ab96899**) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunocytochemistry/ Immunofluorescence - Anti-SPRED1 antibody (ab77079)

Immunofluorescence of Spred1 in Human Brain cells using ab77079 at 20 ug/ml.

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