abcam

Product datasheet

Anti-Sprouty 1/Spry-1 antibody ab111523

4 References 3 Images

Overview

Product name	Anti-Sprouty 1/Spry-1 antibody
Description	Rabbit polyclonal to Sprouty 1/Spry-1
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rabbit, Horse, Cow, Dog, Pig, Macaque monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human liver and fetal liver tissue lysates. ICC/IF: methanol fixed HeLa cells. IHC-P: Human normal liver tissue.
General notes	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab111523 in the following tested applications.

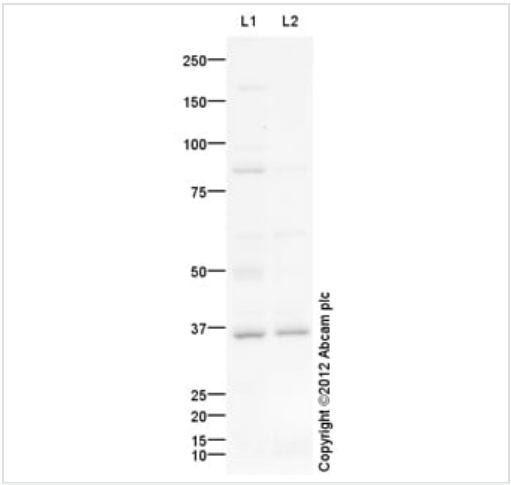
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P		Use a concentration of 10 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).

Target

Function	May function as an antagonist of fibroblast growth factor (FGF) pathways and may negatively modulate respiratory organogenesis.
Sequence similarities	Belongs to the sprouty family. Contains 1 SPR (sprouty) domain.
Domain	The Cys-rich domain is responsible for the localization of the protein to the membrane ruffles.
Cellular localization	Cytoplasm. Membrane. Found in the cytoplasm in unstimulated cells but is translocated to the membrane ruffles in cells stimulated with EGF.

Images



Western blot - Anti-Sprouty 1/Spry-1 antibody (ab111523)

All lanes : Anti-Sprouty 1/Spry-1 antibody (ab111523) at 1 µg/ml

Lane 1 : Human liver tissue lysate - total protein (**ab29889**)
Lane 2 : Liver (Human) Tissue Lysate - fetal normal tissue (**ab29890**)

Lysates/proteins at 10 µg per lane.

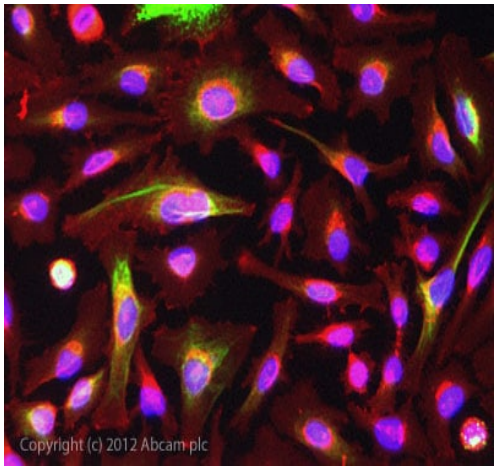
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

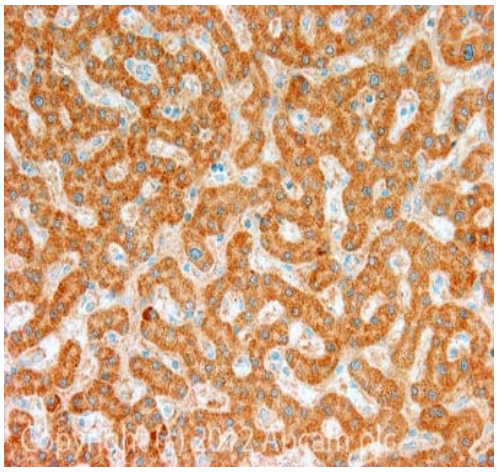
Predicted band size: 35 kDa
Observed band size: 35 kDa
Additional bands at: 85 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Sprouty 1/Spry-1 antibody (ab111523)

ICC/IF image of ab111523 stained HeLa cells. The cells were 100% methanol fixed (5 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 ab111523 at 1µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/250 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sprouty 1/Spry-1 antibody (ab111523)

IHC image of Sprouty 1/Spry-1 staining in Human normal liver formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with EDTA based pH 9.0 solution (epitope retrieval solution 2) for 20 mins. The section was then incubated with ab111523, 10µg/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

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