


Anti-SFRP4 antibody [EPR9389] ab154167

重组 RabMAb

★★★★★ 1 Abreviews 15 References 10 图像

概述

产品名称	Anti-SFRP4抗体[EPR9389]
描述	兔单克隆抗体[EPR9389] to SFRP4
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, Flow Cyt (Intra), ICC/IF 不适用于: IP
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Human ovary cancer, uterus cancer, MCF7 and 293T lysates; Human colon tissue, Human ovarian carcinoma tissue. ICC/IF: A549 cells, RAW264.7 cells. WB: Human ovary cancer tissue lysate, MCF7, THP-1 cell lysate, Mouse ovary tissue lysate, bEnd.3, HC11, Raw 264.7 cell lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR9389

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab154167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		1/1000 - 1/10000. Predicted molecular weight: 40 kDa.
IHC-P	★★★★★ (1)	1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

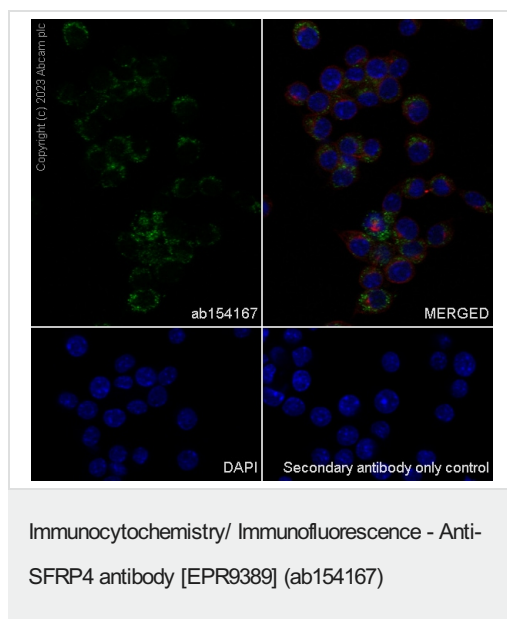
应用说明

Is unsuitable for IP.

靶标

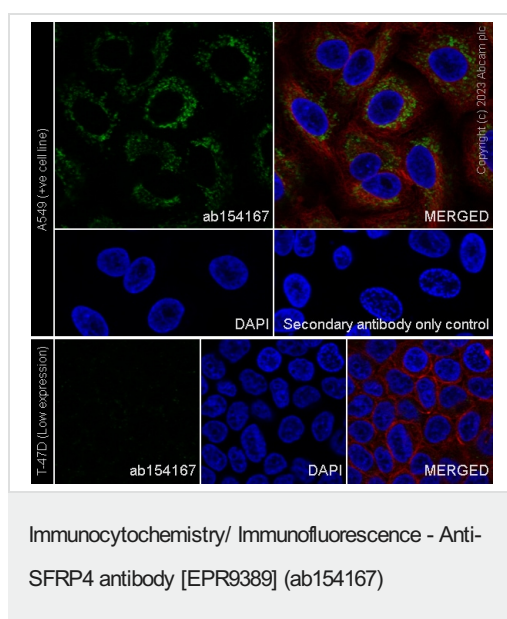
功能	Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP4 may act as a regulator of adult uterine morphology and function. Increases apoptosis during ovulation possibly through modulation of FZ1/FZ4/WNT4 signaling (By similarity). Has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake.
组织特异性	Expressed in mesenchymal cells. Highly expressed in the stroma of proliferative endometrium. Expressed in cardiomyocytes. Shows moderate to strong expression in ovarian tumors with expression increasing as the tumor stage increases. In ovarian tumors, expression levels are inversely correlated with expression of CTNNB1 (at protein level).
序列相似性	Belongs to the secreted frizzled-related protein (sFRP) family. Contains 1 FZ (frizzled) domain. Contains 1 NTR domain.
结构域	The FZ domain is involved in binding with Wnt ligands.
细胞定位	Secreted. Cytoplasmic in ovarian tumor cells.

图片



Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling SFRP4 with ab154167 at 1/200 (6.805 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody used at 1/1000 diluting (2 µg/ml) (Green). **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 µg/ml) dilution (Red). The Nuclear counterstain was (Blue).

Confocal image showing positive staining in RAW 264.7 cell line. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

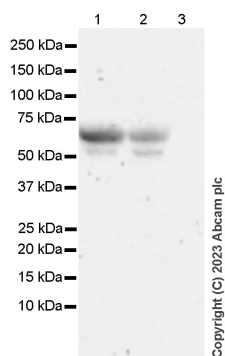


Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized A549 (human lung carcinoma epithelial cell) cells labelling SFRP4 with ab154167 at 1/500 (2.722 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed secondary antibody used at 1/1000 diluting (2 µg/ml)(Green). **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 µg/ml) dilution (Red). The Nuclear counterstain was (Blue).

Confocal image showing positive staining in A549 cell line.

**Negative control:** T-47D.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Western blot - Anti-SFRP4 antibody [EPR9389]  
(ab154167)

**All lanes** : Anti-SFRP4 antibody [EPR9389] (ab154167) at 1/1000 dilution

**Lane 1** : Raw 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) cell culture supernatant at 10  $\mu$ l

**Lane 2** : THP-1 (human monocytic leukemia monocyte) cell culture supernatant at 10  $\mu$ l

**Lane 3** : Blank control

#### Secondary

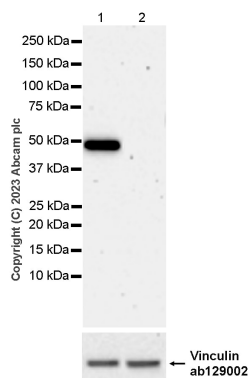
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 40 kDa

**Observed band size:** 60 kDa

**Exposure time:** 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-SFRP4 antibody [EPR9389]  
(ab154167)

**All lanes** : Anti-SFRP4 antibody [EPR9389] (ab154167) at 1/1000 dilution

**Lane 1** : A549 (human lung carcinoma epithelial cell) while cell lysate

**Lane 2** : T-47D (human ductal breast epithelial tumor epithelial cell) while cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 40 kDa

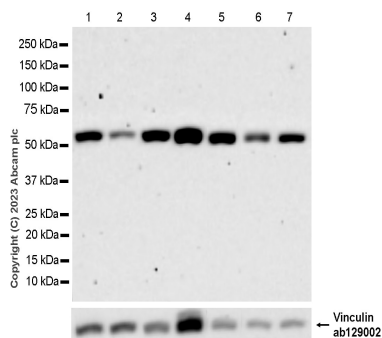
**Observed band size:** 50 kDa

**Exposure time:** 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

**Negative control:** T-47D.

In Western blot, anti-Vinculin antibody ([ab129002](#)) staining at 1/10,000 dilution.



Western blot - Anti-SFRP4 antibody [EPR9389]  
(ab154167)

**All lanes** : Anti-SFRP4 antibody [EPR9389] (ab154167) at 1/1000 dilution

**Lane 1** : Human ovary cancer tissue lysate

**Lane 2** : MCF7 (human breast adenocarcinoma epithelial cell) while cell lysate

**Lane 3** : THP-1 (human monocytic leukemia monocyte) while cell lysate

**Lane 4** : Mouse ovary tissue lysate

**Lane 5** : bEnd.3 (mouse brain endothelial cell) while cell lysate

**Lane 6** : HC11 (mouse mammary gland epithelial cell) while cell lysate

**Lane 7** : Raw 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) while cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

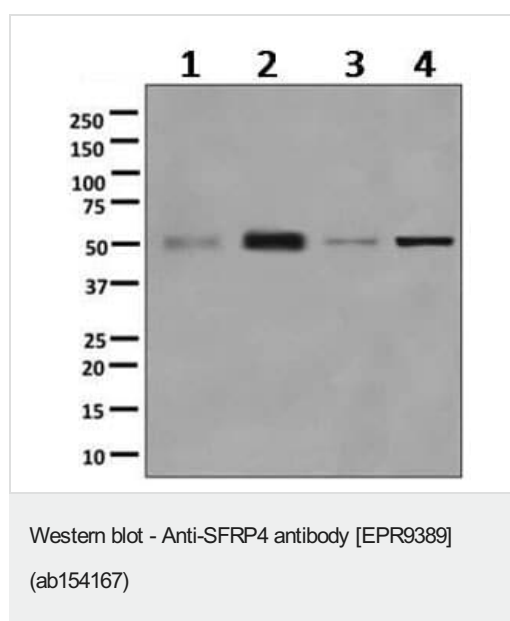
**Predicted band size:** 40 kDa

**Observed band size:** 50 kDa

**Exposure time:** 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, anti-Vinculin antibody ([ab129002](#)) staining at 1/10,000 dilution.



**All lanes** : Anti-SFRP4 antibody [EPR9389] ([ab154167](#)) at 1/1000 dilution

**Lane 1** : Human ovary cancer lysate

**Lane 2** : Human uterus cancer lysate

**Lane 3** : MCF7 lysate

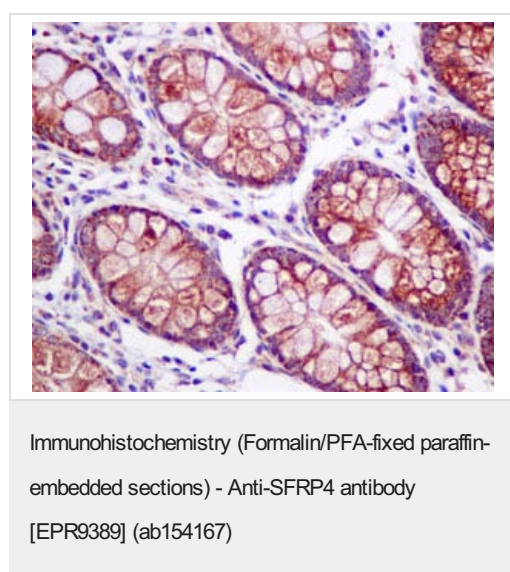
**Lane 4** : 293T lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

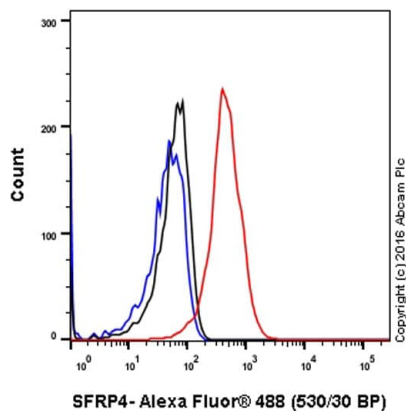
**All lanes** : Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 40 kDa



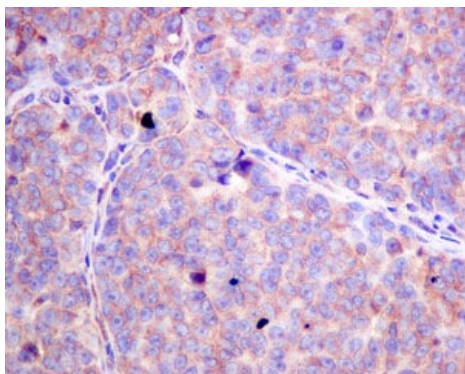
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling SFRP4 with [ab154167](#) at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-SFRP4 antibody  
[EPR9389] (ab154167)

Intracellular Flow Cytometry analysis of MCF-7 (human breast carcinoma) cells labeling SFRP4 with unpurified ab154167 at 1/130 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SFRP4 antibody  
[EPR9389] (ab154167)

Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling SFRP4 with ab154167 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-SFRP4 antibody [EPR9389] (ab154167)

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