

### Anti-SAMD9 antibody [EPR13603] ab180575

敲除验证
重组
RabMAb

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#### 概述

产品名称	Anti-SAMD9抗体[EPR13603]
描述	兔单克隆抗体[EPR13603] to SAMD9
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A549, A431 and MCF7 cell lysates. Flow Cyt (intra): A431 and MCF7 cells. ICC/IF: A431 cells.
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	<p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR13603
同种型	IgG

应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab180575于以下的经测试应用

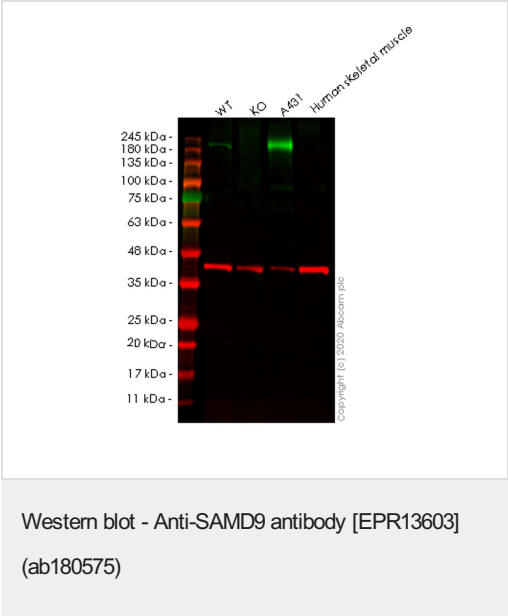
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/30 - 1/50. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 184 kDa.
ICC/IF		1/50 - 1/100.

靶标

组织特异性	Widely expressed. Very low levels in skeletal muscle. Not detected in fetal brain. Down-regulated in aggressive fibromatosis, as well as in breast and colon cancers.
疾病相关	Defects in SAMD9 are the cause of normophosphatemic familial tumoral calcinosis (NFTC) [MIM:610455]. NFTC is an uncommon life-threatening disorder characterized by massive periarticular, and seldom visceral, deposition of calcified tumors.
序列相似性	Contains 1 SAM (sterile alpha motif) domain.
细胞定位	Cytoplasm.

图片



**All lanes :** Anti-SAMD9 antibody [EPR13603] (ab180575) at 1/1000 dilution

- Lane 1 :** Wild-type A549 cell lysate
- Lane 2 :** SAMD9 knockout A549 cell lysate
- Lane 3 :** A431 cell lysate
- Lane 4 :** Human skeletal muscle cell lysate

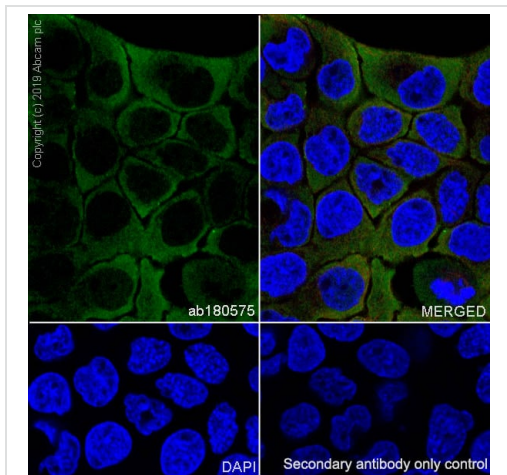
Lysates/proteins at 20 µg per lane.

**Secondary**  
**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 184 kDa  
**Observed band size:** 184 kDa

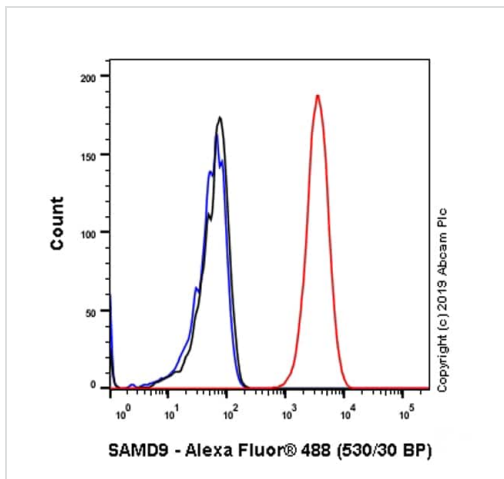
**Lanes 1-4:** Merged signal (red and green). Green - ab180575 observed at 184 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab180575 Anti-SAMD9 antibody [EPR13603] was shown to specifically react with SAMD9 in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267038** (knockout cell lysate **ab257656**) was used. Wild-type and SAMD9 knockout samples were subjected to SDS-PAGE. ab180575 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



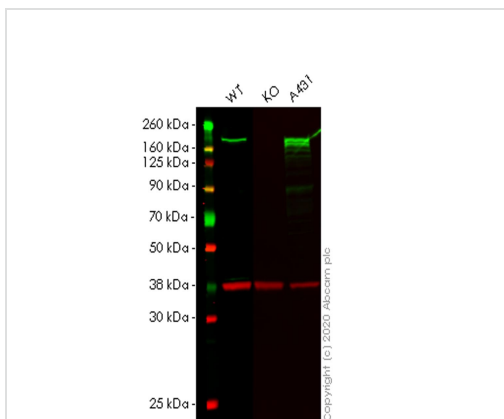
Immunocytochemistry/ Immunofluorescence analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling SAMD9 with purified ab180575 at 1:50 dilution (5.4 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with none. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

Immunocytochemistry/ Immunofluorescence - Anti-SAMD9 antibody [EPR13603] (ab180575)



Flow Cytometry (Intracellular) - Anti-SAMD9 antibody [EPR13603] (ab180575)

Intracellular Flow Cytometry analysis of MCF-7 (Human breast adenocarcinoma epithelial cell) cells labeling SAMD9 with purified ab180575 at 1/30 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-SAMD9 antibody [EPR13603] (ab180575)

**All lanes :** Anti-SAMD9 antibody [EPR13603] (ab180575) at 1/1000 dilution

**Lane 1 :** Wild-type A549 cell lysate

**Lane 2 :** SAMD9 knockout A549 cell lysate

**Lane 3 :** A431 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

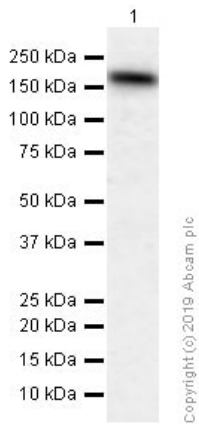
**Predicted band size:** 184 kDa

**Observed band size:** 184 kDa

**Lanes 1-3:** Merged signal (red and green). Green - ab180575 observed at 184 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab180575 Anti-SAMD9 antibody [EPR13603] was shown to specifically react with SAMD9 in wild-type A549 cells. Loss of signal was observed when knockout cell line [ab267039](#) (knockout cell lysate [ab257657](#)) was used. Wild-type and SAMD9 knockout samples were subjected to SDS-PAGE. ab180575 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L

(IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-SAMD9 antibody [EPR13603] (ab180575)

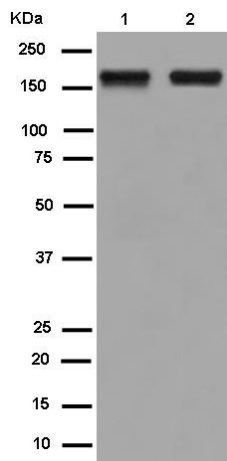
Anti-SAMD9 antibody [EPR13603] (ab180575) at 1/1000 dilution (Purified) + MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates at 15 µg

#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 184 kDa

**Observed band size:** 184 kDa



Western blot - Anti-SAMD9 antibody [EPR13603] (ab180575)

**All lanes :** Anti-SAMD9 antibody [EPR13603] (ab180575) at 1/10000 dilution (unpurified)

**Lane 1 :** A431 cell lysate with NFDm/TBST

**Lane 2 :** MCF-7 cell lysate with NFDm/TBST

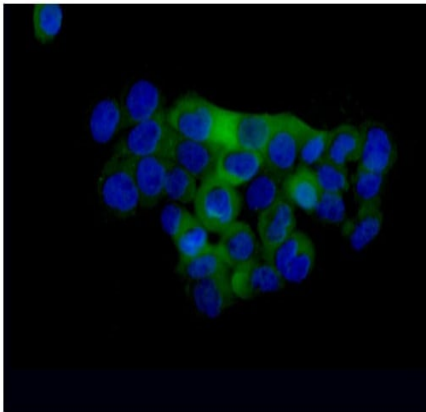
Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % per lane.

#### Secondary

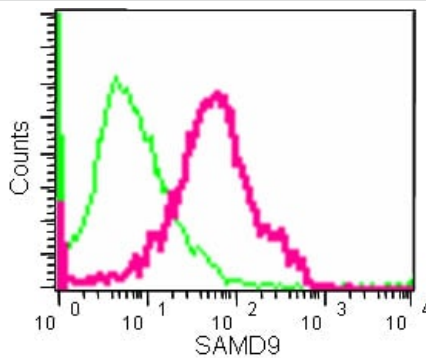
**All lanes :** Goat Anti-rabbit HRP at 1/1000 dilution

**Predicted band size:** 184 kDa



Immunofluorescence analysis of 4% paraformaldehyde-A431 cells labeling SAMD9 with ab180575 (unpurified) (green) at 1/100 dilution. Dapi counterstain (blue). Goat anti rabbit IgG (Dylight 488) at a dilution of 1/200 was used as a secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-SAMD9 antibody [EPR13603] (ab180575)



Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed A431 cells labeling SAMD9 with ab180575 (unpurified) at 1/50 dilution, or Rabbit monoclonal IgG Isotype control.

Flow Cytometry (Intracellular) - Anti-SAMD9 antibody [EPR13603] (ab180575)

### 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-SAMD9 antibody [EPR13603] (ab180575)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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