

### Anti-CD9 antibody [EPR23105-125] ab263019

敲除验证
重组
RabMAb

[10 References](#)
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#### 概述

产品名称	Anti-CD9抗体[EPR23105-125]
描述	兔单克隆抗体[EPR23105-125] to CD9
宿主	Rabbit
经测试应用	<b>适用于:</b> IP, WB, IHC-P, Flow Cyt <b>不适用于:</b> ICC/IF
种属反应性	<b>与反应:</b> Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, MCF7, HCT 116, HEL, Human tonsil and Human colon lysates. IHC-P: Human spleen and cervical carcinoma tissues. Flow Cyt: HCT 116 cells. IP: HCT 116 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23105-125

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab263019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
IP		1/30.
WB		1/1000. Detects a band of approximately 22 kDa (predicted molecular weight: 25 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/500.

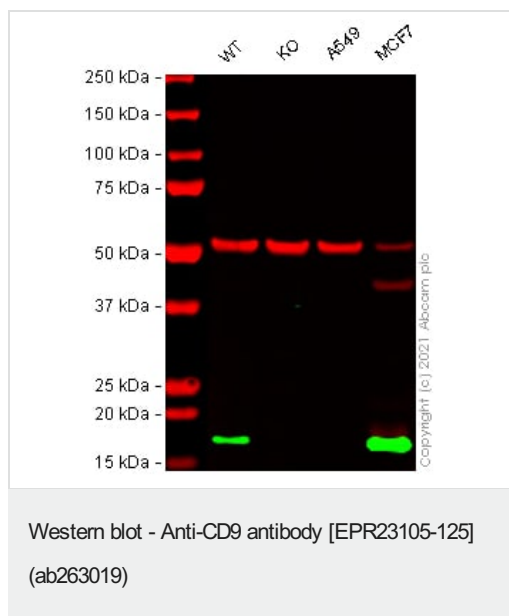
应用说明

Is unsuitable for ICC/IF.

靶标

功能	Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion.
组织特异性	Expressed by a variety of hematopoietic and epithelial cells.
序列相似性	Belongs to the tetraspanin (TM4SF) family.
翻译后修饰	Protein exists in three forms with molecular masses between 22 and 27 kDa, and is known to carry covalently linked fatty acids.
细胞定位	Membrane.

图片



**All lanes :** Anti-CD9 antibody [EPR23105-125] (ab263019) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 2 :** CD9 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 3 :** A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 4 :** MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

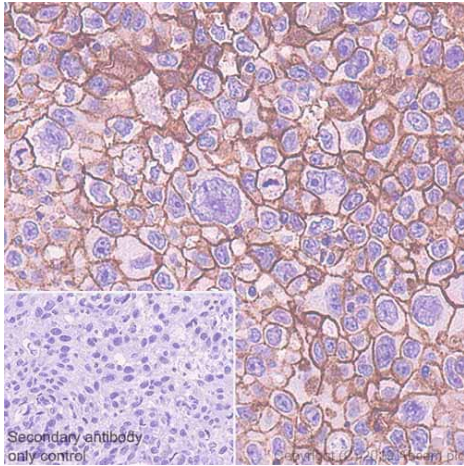
Performed under reducing conditions.

**Predicted band size:** 25 kDa

**Observed band size:** 18 kDa

**Lanes 1 -4:** Merged signal (red and green). Green - ab263019 observed at 18 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab263019 was shown to react with CD9 in wild-type HeLa cells in Western blot with loss of signal observed in CD9 knockout cell line **ab255375** (CD9 knockout cell lysate **ab263754**). Wild-type HeLa and CD9 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab263019 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.

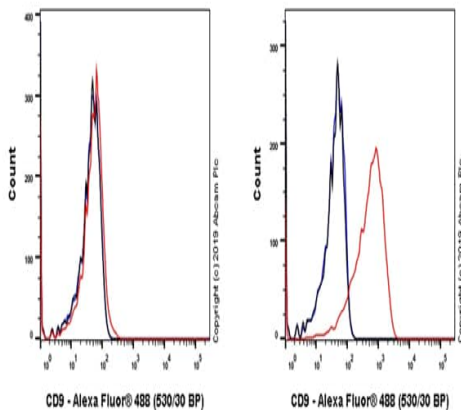


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR23105-125] (ab263019)

Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma tissue labeling CD9 with ab263019 at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human cervical carcinoma. The section was incubated with ab263019 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.

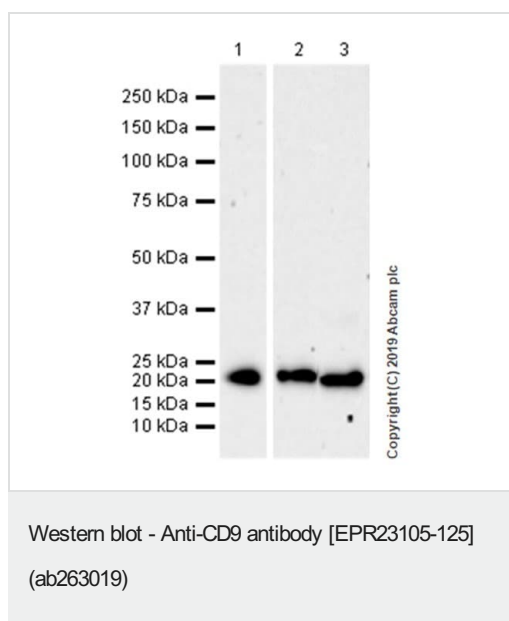


Flow Cytometry - Anti-CD9 antibody [EPR23105-125] (ab263019)

Flow cytometric analysis of Raji (human Burkitt's lymphoma B lymphocyte, Left) / HCT 116 (human colorectal carcinoma epithelial cell, Right) cells labelling CD9 with ab263019 at 1/500 dilution compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor<sup>®</sup> 488, **ab150077**) at 1/2000 was used as the secondary antibody.

**Negative control:** Raji (PMID: 8921952).

Gated on viable cells.



**All lanes :** Anti-CD9 antibody [EPR23105-125] (ab263019) at 1/1000 dilution

**Lane 1 :** HEL (erythroleukemia erythroblast), whole cell lysate

**Lane 2 :** Human tonsil lysate

**Lane 3 :** Human colon lysate

Lysates/proteins at 20 µg per lane.

### Secondary

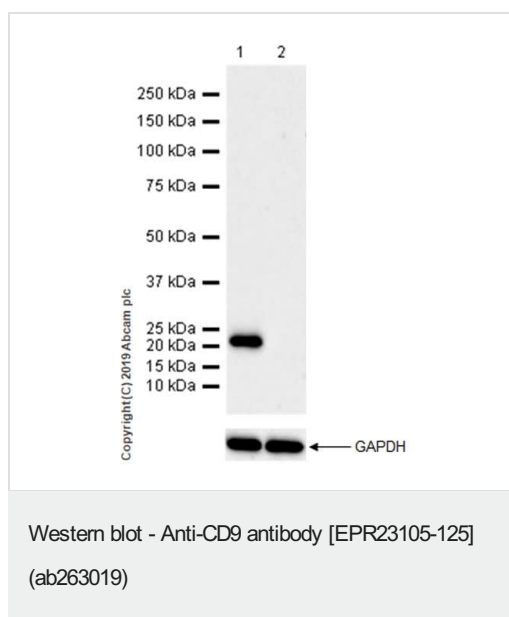
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 25 kDa

**Observed band size:** 22 kDa

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

The molecular weight observed is consistent with what has been described in the literature (PMID: 3275469). Exposure time: 3 minutes.



**All lanes :** Anti-CD9 antibody [EPR23105-125] (ab263019) at 1/1000 dilution

**Lane 1 :** HCT 116 (human colorectal carcinoma epithelial cell) whole cell lysate

**Lane 2 :** Raji (human Burkitts lymphoma B lymphocyte) whole 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:** 25 kDa

**Observed band size:** 22 kDa

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

The molecular weight observed is consistent with what has been described in the literature (PMID: 3275469).

**Negative control:** Raji (PMID: 8921952). Exposure time: 3 minutes.



Immunoprecipitation - Anti-CD9 antibody  
[EPR23105-125] (ab263019)

CD9 was immunoprecipitated from 0.35 mg HCT 116 (human colorectal carcinoma epithelial cell) whole cell lysate with ab263019 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab263019 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/1000 dilution.

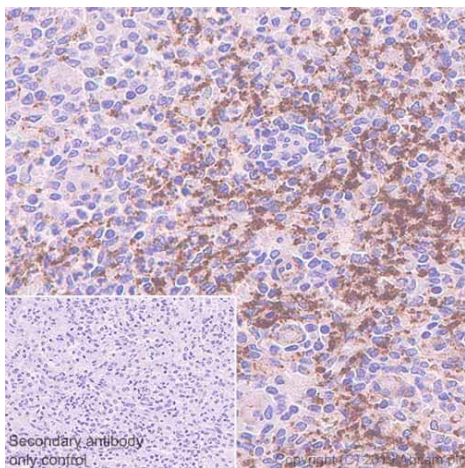
Lane 1: HCT 116 (human colorectal carcinoma epithelial cell) whole cell lysate 10ug.

Lane 2: ab263019 IP in HCT 116 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab263019 in HCT 116 whole cell lysate.

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

Exposure time: 10 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody  
[EPR23105-125] (ab263019)

Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling CD9 with ab263019 at 1/1000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on platelets of human spleen. The section was incubated with ab263019 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

### 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-CD9 antibody [EPR23105-125] (ab263019)

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

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