

# Anti-RIP antibody [EPR4689-100] ab178420

敲除验证 重组 RabMAb

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### 概述

产品名称	Anti-RIP抗体[EPR4689-100]
描述	兔单克隆抗体[EPR4689-100] to RIP
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), WB <b>不适用于:</b> ICC/IF, IHC-P or IP
种属反应性	<b>与反应:</b> Human
免疫原	Recombinant fragment within Human RIP. The exact sequence is proprietary. Database link: <a href="#">Q13546</a>
阳性对照	HeLa cells and cell lysates; Raji cell lysates.
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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR4689-100
同种型	IgG

## 应用

**The Abpromise guarantee** **Abpromise™** 承诺保证使用 ab178420 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)		1/10 - 1/100. <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: 75 kDa.

**应用说明** Is unsuitable for ICC/IF, IHC-P or IP.

## 靶标

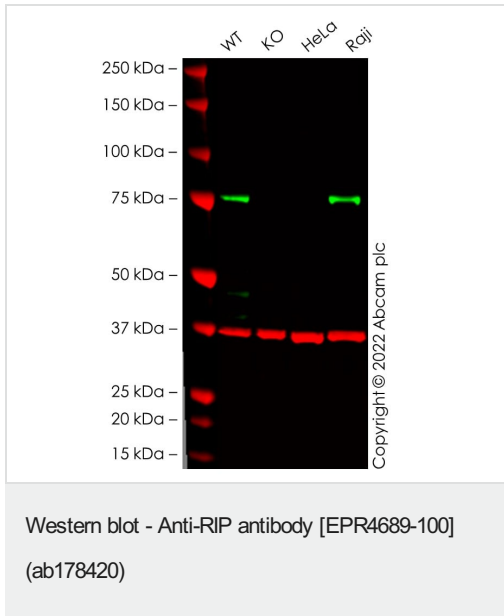
**功能** Essential adapter molecule for the activation of NF-kappa-B. Following different upstream signals (binding of inflammatory cytokines, stimulation of pathogen recognition receptors, or DNA damage), particular RIPK1-containing complexes are formed, initiating a limited number of cellular responses. Upon TNFA stimulation RIPK1 is recruited to a TRADD-TRAF complex initiated by TNFR1 trimerization. There, it is ubiquitinated via 'Lys-63'-link chains, inducing its association with the IKK complex, and its activation through NEMO binding of polyubiquitin chains.

**序列相似性** Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.  
Contains 1 death domain.  
Contains 1 protein kinase domain.

**翻译后修饰** Proteolytically cleaved by caspase-8 during TNF-induced apoptosis. Cleavage abolishes NF-kappa-B activation and enhances pro-apoptotic signaling through the TRADD-FADD interaction. Autophosphorylated on serine and threonine residues.  
Ubiquitinated by 'Lys-11-', 'Lys-48-', 'Lys-63'- and linear-linked type ubiquitin. Polyubiquitination with 'Lys-63'-linked chains by TRAF2 induces association with the IKK complex. Deubiquitination of 'Lys-63'-linked chains and polyubiquitination with 'Lys-48'-linked chains by TNFAIP3 leads to RIPK1 proteasomal degradation and consequently to the termination of the TNF- or Linear polyubiquitinated; the head-to-tail polyubiquitination is mediated by the LUBAC complex. LPS-mediated activation of NF-kappa-B. Also ubiquitinated with 'Lys-11'-linked chains.

**细胞定位** Cytoplasm.

## 图片



**All lanes :** Anti-RIP antibody [EPR4689-100] (ab178420) at 1/1000 dilution

- Lane 1 :** Wild-type THP-1 cell lysate
- Lane 2 :** RIPK1 knockout THP-1 cell lysate
- Lane 3 :** HeLa cell lysate
- Lane 4 :** Raji cell lysate

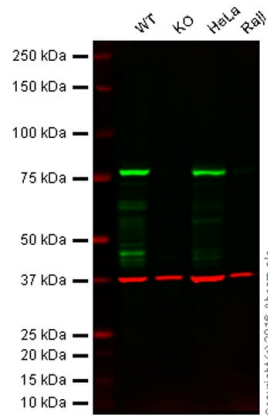
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 75 kDa

**Observed band size:** 76 kDa

False colour image of Western blot: Anti-RIP antibody [EPR4689-100] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab178420 was shown to bind specifically to RIP. A band was observed at 76 kDa in wild-type THP-1 cell lysates with no signal observed at this size in RIPK1 knockout cell line [ab276121](#) (knockout cell lysate [ab284210](#)). To generate this image, wild-type and RIPK1 knockout THP-1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-RIP antibody [EPR4689-100]  
(ab178420)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

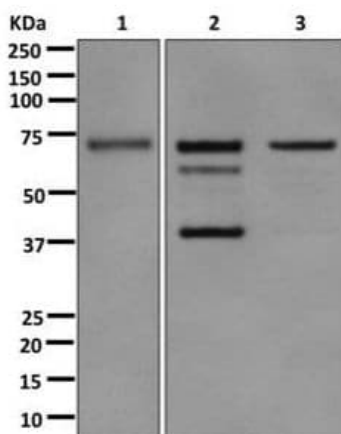
**Lane 2:** RIP knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** Raji cell lysate (20 µg)

**Lanes 1 to 4:** Merged signal (red and green). Green - ab178420 observed at 78 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab178420 was shown to react with RIP in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when RIP knockout samples were examined. Wild-type and RIP knockout samples were subjected to SDS-PAGE. ab178420 and **ab8245** (loading control to GAPDH) were both diluted 1/1000 and 1/10,000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-RIP antibody [EPR4689-100]  
(ab178420)

**All lanes :** Anti-RIP antibody [EPR4689-100] (ab178420) at 1/1000 dilution

**Lane 1 :** Raji cell lysate

**Lane 2 :** HeLa cell lysate with Staurosporine

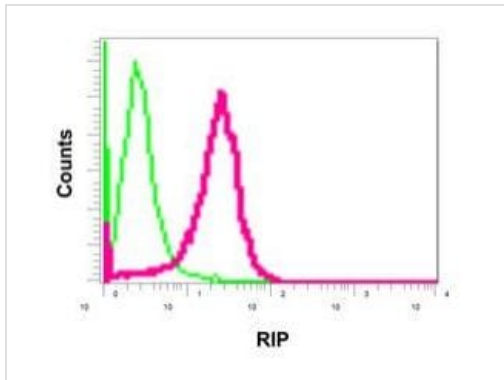
**Lane 3 :** HeLa cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size:** 75 kDa



Intracellular flow cytometric analysis of permeabilized HeLa cells labeling RIP with ab178420 at 1/10 dilution (red) compared with a rabbit IgG negative control (green).

Flow Cytometry (Intracellular) - Anti-RIP antibody [EPR4689-100] (ab178420)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-RIP antibody [EPR4689-100] (ab178420)

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

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