

# Anti-PKR (phospho T451) antibody [EPR2152Y] ab81303

**重组** RabMAb

★☆☆☆☆ **1 Abreviews** **24 References** **5 图像**

## 概述

产品名称	Anti-PKR (phospho T451)抗体[EPR2152Y]
描述	兔单克隆抗体[EPR2152Y] to PKR (phospho T451)
宿主	Rabbit
经测试应用	<b>适用于:</b> Dot blot, WB <b>不适用于:</b> IHC-P
种属反应性	<b>与反应:</b> Human, Pig
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa cell lysates.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <b><a href="#">see here</a></b> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <b><a href="#">RabMAb<sup>®</sup> patents</a></b> .  Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

## 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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR2152Y

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab81303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
Dot blot		1/1000.
WB	★☆☆☆☆ (1)	Use at an assay dependent concentration. Detects a band of approximately 68 kDa (predicted molecular weight: 62 kDa).

应用说明

Is unsuitable for IHC-P.

靶标

功能

Following activation by double-stranded RNA in the presence of ATP, the kinase becomes autophosphorylated and can catalyze the phosphorylation of the translation initiation factor EIF2S1, which leads to an inhibition of the initiation of protein synthesis. Double-stranded RNA is generated during the course of a viral infection.

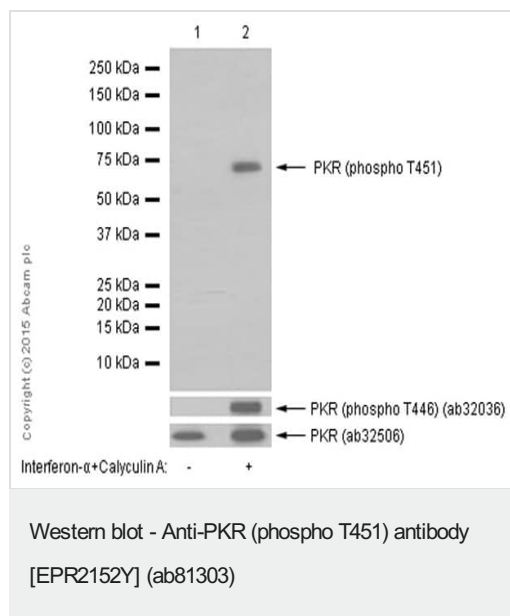
序列相似性

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily. Contains 2 DRBM (double-stranded RNA-binding) domains. Contains 1 protein kinase domain.

翻译后修饰

Autophosphorylated on several Ser and Thr residues. Autophosphorylation of Thr-451 is dependent on Thr-446 and is stimulated by dsRNA binding and dimerization. Autophosphorylation apparently leads to the activation of the kinase.

图片



**All lanes :** Anti-PKR (phospho T451) antibody [EPR2152Y] (ab81303) at 1/2000 dilution

**Lane 1 :** Untreated HeLa (human cervix adenocarcinoma) whole cell lysate

**Lane 2 :** HeLa (human cervix adenocarcinoma) treated with Interferon-α and Calyculin A whole cell lysate

Lysates/proteins at 10 µg per lane.

## Secondary

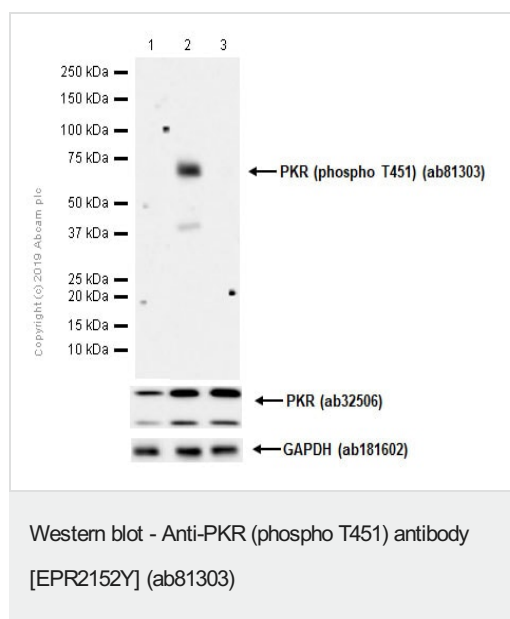
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 62 kDa

Purified format.

Blocking buffer: 5% NFDM/TBST

Diluting buffer: 5% NFDM/TBST



**All lanes :** Anti-PKR (phospho T451) antibody [EPR2152Y] (ab81303) at 0.048 µg/ml

**Lane 1 :** HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 2 :** HeLa treated with 1000U/ml IFN α1 for 18 hours and then treated with 100nM Calyculin A for 15 minutes whole cell lysate

**Lane 3 :** HeLa treated with 1000U/ml IFN α1 for 18 hours and then treated with 100nM Calyculin A for 15 minutes whole cell lysate. Then the membrane was incubated with alkaline phosphatase.

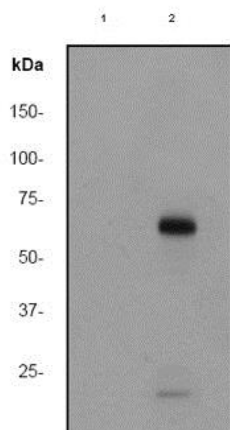
Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 0.01 µg/ml

**Predicted band size:** 62 kDa

Blocking/Diluting Buffer and concentration: 5% NFDM /TBST



Western blot - Anti-PKR (phospho T451) antibody [EPR2152Y] (ab81303)

**All lanes :** Anti-PKR (phospho T451) antibody [EPR2152Y] (ab81303) at 1/2000 dilution (undiluted)

**Lane 1 :** HeLa cell lysate un-treated

**Lane 2 :** HeLa cell lysate treated with IFN-alpha

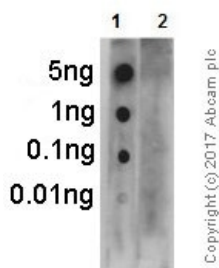
Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 62 kDa

**Observed band size:** 68 kDa



Dot Blot - Anti-PKR (phospho T451) antibody [EPR2152Y] (ab81303)

Dot blot analysis of PKR (pT451) phospho peptide (Lane 1), PKR non-phospho peptide (Lane 2), labeling PKR (phospho T451) with ab81303 at a dilution of 1/1000. **ab97051** (Peroxidase conjugated goat anti-rabbit IgG (H+L)) was used as the secondary antibody at a dilution of 1/100000.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes

### 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-PKR (phospho T451) antibody [EPR2152Y] (ab81303)

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

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