

## Product datasheet

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

リコンビナント RabMAb®

★★★★★ 1 Abreviews 9 References 画像数 3

### 製品の概要

製品名	Anti-PKR (phospho T451) antibody [EPR2152Y]
製品の詳細	Rabbit monoclonal [EPR2152Y] to PKR (phospho T451)
由来種	Rabbit
特異性	ab81303 only detects PKR phosphorylated on Threonine 451.
アプリケーション	<b>適用あり:</b> Dot blot, WB <b>適用なし:</b> IHC-P
種交差性	<b>交差種:</b> Human
免疫原	A synthetic phospho-peptide corresponding to residues surrounding Thr451 of Human PKR.
ポジティブ・コントロール	WB: HeLa cell lysates.
特記事項	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab® patents](#)

**We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.**

This product is a recombinant rabbit monoclonal antibody.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified

ポリクローナル	モノクローナル
クローン名	EPR2152Y
アイソタイプ	IgG

## アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab81303** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

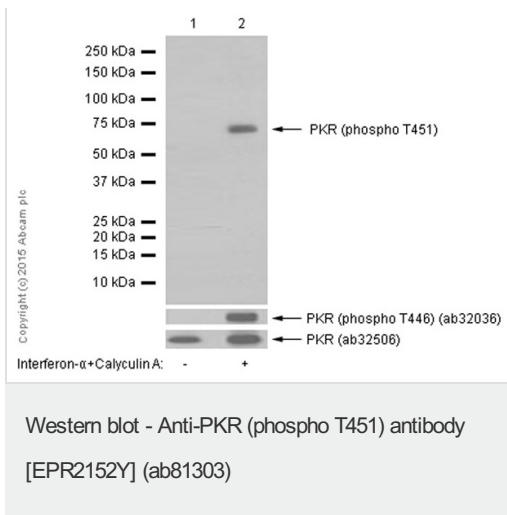
アプリケーション	Abreviews	特記事項
Dot blot		1/1000.
WB	★☆☆☆☆	Use at an assay dependent concentration. Detects a band of approximately 68 kDa (predicted molecular weight: 62 kDa).

**追加情報** Is unsuitable for IHC-P.

## ターゲット情報

<b>機能</b>	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.
<b>配列類似性</b>	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.
<b>翻訳後修飾</b>	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.

## 画像



**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- $\alpha$  and Calyculin A whole cell lysate

Lysates/proteins at 10  $\mu$ g per lane.

### Secondary

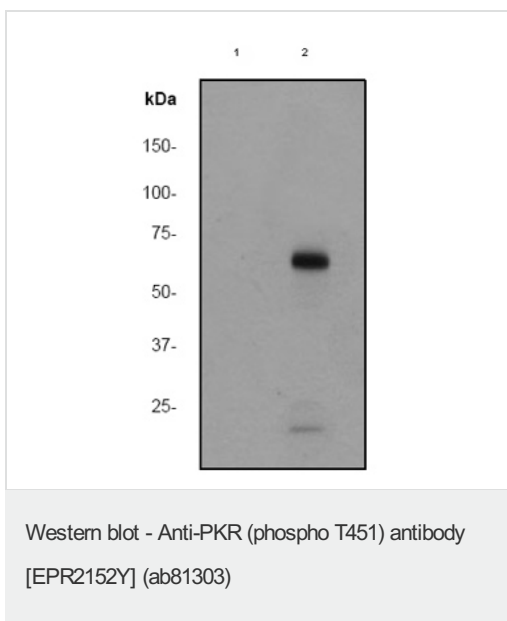
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**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 1/2000 dilution (undiluted)

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

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

Lysates/proteins at 10  $\mu$ g per lane.

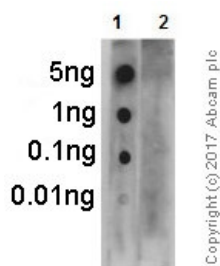
### Secondary

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

**Predicted band size:** 62 kDa

**Observed band size:** 68 kDa

[why is the actual band size different from the predicted?](#)



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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors