# Phospho-PKR/EIF2AK2-T446 Rabbit pAb

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Catalog No.: AP1251 1 Publications

## **Basic Information**

#### **Observed MW**

68kDa/

## **Calculated MW**

62kDa

## Category

Primary antibody

## **Applications**

WB,IF/ICC,ELISA

#### **Cross-Reactivity**

Human, Mouse

# **Background**

The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. The encoded protein plays an important role in the innate immune response against multiple DNA and RNA viruses.

# **Recommended Dilutions**

1:1000 - 1:5000 **WB** 

1:50 - 1:200 IF/ICC

Recommended starting **ELISA** concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements.

# **Immunogen Information**

**Gene ID Swiss Prot** 5610 P19525

#### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

## **Synonyms**

PKR; PRKR; DYT33; LEUDEN; EIF2AK1; PPP1R83; Phospho-PKR/EIF2AK2-T446

## **Contact**

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## **Product Information**

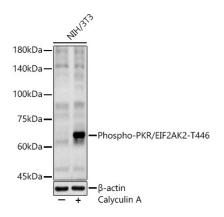
Source Isotype **Purification** Rabbit IgG Affinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

# **Validation Data**



Western blot analysis of lysates from NIH/3T3 cells using Phospho-PKR/EIF2AK2-T446 Rabbit pAb (AP1251) at 1:2000 dilution. NIH/3T3 cells were treated with Calyculin A (100 nM) at  $37^{\circ}$ C for 30 minutes after serum-starvation overnight.

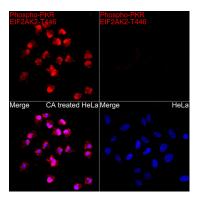
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.



Immunofluorescence analysis of HeLa treated with CA and HeLa cells using Phospho-PKR/EIF2AK2-T446 Rabbit pAb (AP1251) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.