

# PKR/EIF2AK2 Rabbit pAb

Catalog No.: A4047 **1 Publications**

## Basic Information

### Observed MW

72kDa

### Calculated MW

62kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P, IF/ICC

### 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

WB	1:1000 - 1:2000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

## Immunogen Information

### Gene ID

5610

### Swiss Prot

P19525

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-270 of human PKR/EIF2AK2 (NP\_002750.1).

### Synonyms

PKR; PRKR; DYT33; LEUDEN; EIF2AK1; PPP1R83; PKR/EIF2AK2

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

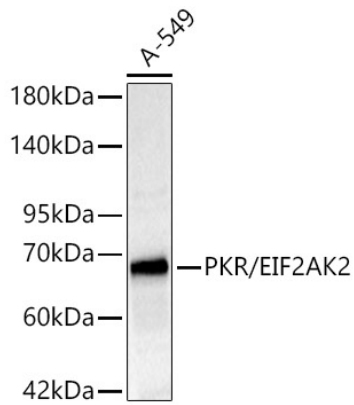
Affinity purification

### Storage

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

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of lysates from A-549 cells, using PKR/EIF2AK2 Rabbit pAb (A4047) at 1:1000 dilution.

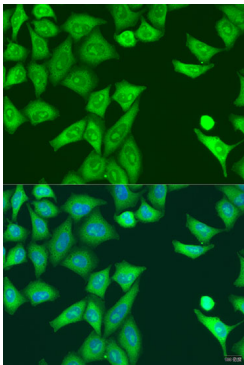
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

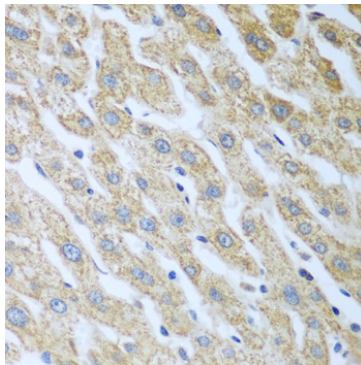
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Immunofluorescence analysis of U2OS cells using PKR/EIF2AK2 Rabbit pAb (A4047) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded human liver using PKR/EIF2AK2 Rabbit pAb (A4047) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.