A19545

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# PKR/EIF2AK2 Rabbit mAb

**Catalog No.: A19545** Recombinant 4 Publications

## Basic Information

**Observed MW**
70 kDa

**Calculated MW**
62 kDa

**Category**
Monoclonal Antibody

**Applications**
WB,IF/ICC,ELISA

**Cross-Reactivity**
Human

**CloneNo number**
ARC0024

## 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 - 1:4000 |
| **IF/ICC** | 1:50 - 1:100 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
5610

**Swiss Prot**
P19525

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

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

## Contact

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## Product Information

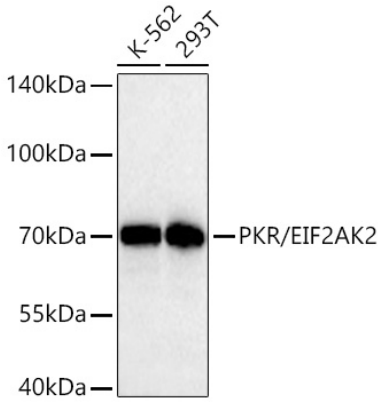
**Source**
Rabbit

**Isotype**
IgG

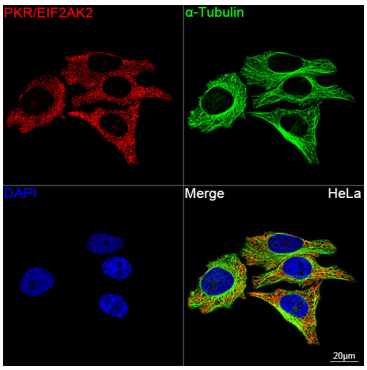
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

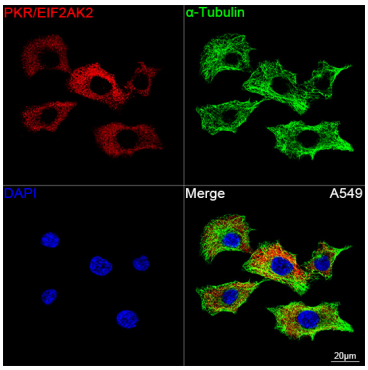
## Validation Data




Western blot analysis of various lysates using PKR/EIF2AK2 Rabbit mAb (A19545) at 1:2000 dilution incubated overnight at 4℃.
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: 30 s.




Confocal imaging of HeLa cells using PKR/EIF2AK2 Rabbit mAb (A19545, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.




Confocal imaging of A549 cells using PKR/EIF2AK2 Rabbit mAb (A19545, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.