

## PKR Antibody

Catalog No: #21272

Package Size: #21272-1 50ul #21272-2 100ul

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## Description

|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | PKR Antibody                                                                                                                                                                  |
| Host Species          | Rabbit                                                                                                                                                                        |
| Clonality             | Polyclonal                                                                                                                                                                    |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications          | WB IHC IF                                                                                                                                                                     |
| Species Reactivity    | Human;Rat                                                                                                                                                                     |
| Specificity           | The antibody detects endogenous level of total PKR protein.                                                                                                                   |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                   |
| Immunogen Description | Peptide sequence around aa.444~448 (K-R-T-R-S) derived from Human PKR.                                                                                                        |
| Conjugates            | Unconjugated                                                                                                                                                                  |
| Target Name           | PKR                                                                                                                                                                           |
| Other Names           | ADRB2; E2AK2; EIF2AK2; EIF2aK; PRKR                                                                                                                                           |
| Accession No.         | Swiss-Prot: P19525 NCBI Protein: NP_001129123.1                                                                                                                               |
| Concentration         | 1.0mg/ml                                                                                                                                                                      |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                  |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                                                                                     |

## Application Details

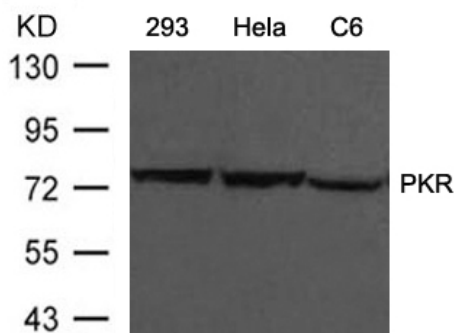
Predicted MW: 68kd

Western blotting: 1:500~1:1000

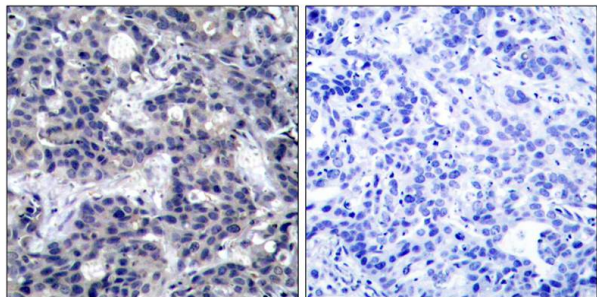
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

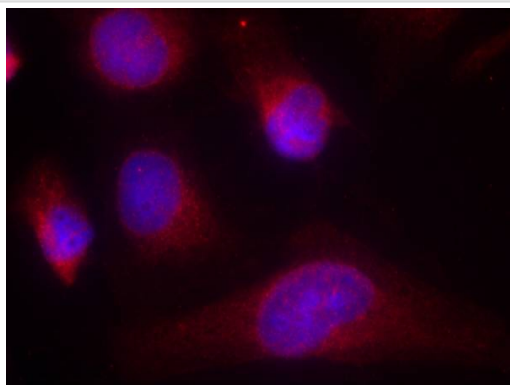
## Images



Western blot analysis of extracts from 293, HeLa and C6 cells using PKR(Ab-446) Antibody #21272.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PKR(Ab-446) Antibody #21272(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using PKR(Ab-446) Antibody #21272.

## Background

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.

Abujiang Pataer, et.al. (2002) Cancer Res ; 62: 2239.

K. D. Ryman, et.al. (2005) J. Virol ; 79: 1487 - 1499.

Susana Guerra, et.al. (2006) J. Biol. Chem ; 281: 18734 - 18745.

## Published Papers

el at., Fluoxetine Inhibits NLRP3 Inflammasome Activation: Implication in Depression.In Int J Neuropsychopharmacol.On 2016 Sep 21 by Du RH, Tan J et al..PMID:27207922, , (2016)

[PMID:27207922](https://pubmed.ncbi.nlm.nih.gov/27207922/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.