

## PKR(Phospho-Thr446) Antibody

Catalog No: #11280



Package Size: #11280-1 50ul #11280-2 100ul #11280-4 25ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	PKR(Phospho-Thr446) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of PKR only when phosphorylated at threonine 446.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 446 (K-R-T(p)-R-S) derived from Human PKR.
Target Name	PKR
Modification	Phospho-Thr446
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

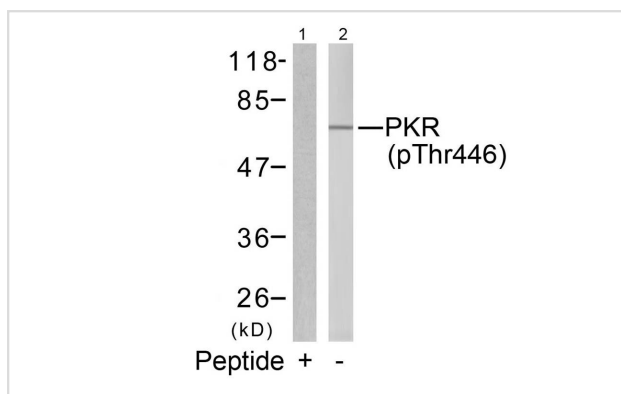
Predicted MW: 68kd

Western blotting: 1:500~1:1000

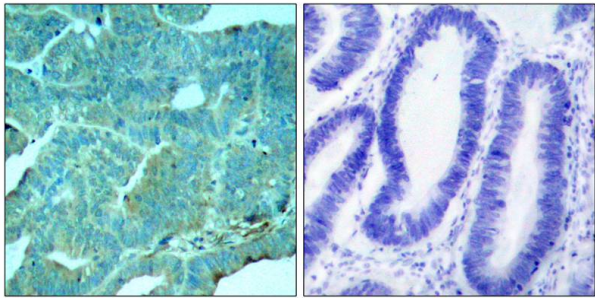
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

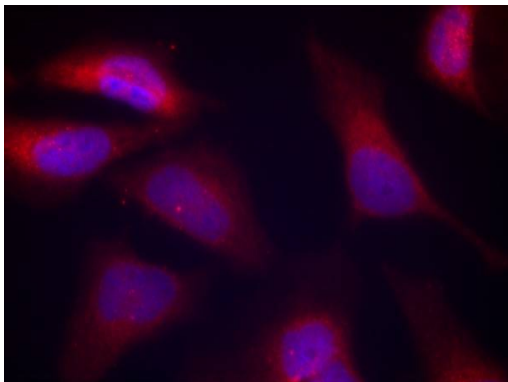
## Images



Western blot analysis of extracts from K562 cells using PKR(Phospho-Thr446) Antibody #11280(Lane 2) and the same antibody preincubated with blocking peptide(Lane1).



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using PKR(Phospho-Thr446) Antibody #11280(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using PKR(Phospho-Thr446) Antibody #11280.

## 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

Suzette Laing, Guohui Wang, Tamara Briazova et al., Airborne Particulate Matter Selectively Activates Endoplasmic Reticulum Stress Response in the Lung and Liver Tissues., *American Journal of Physiol Cell Physiol*, 299(4):C736-749. doi:10.1152/ajpcell.00529.2009(2010)

PMID:20554909

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