

PKR(Phospho-Thr446) Antibody

Catalog No: #11280

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

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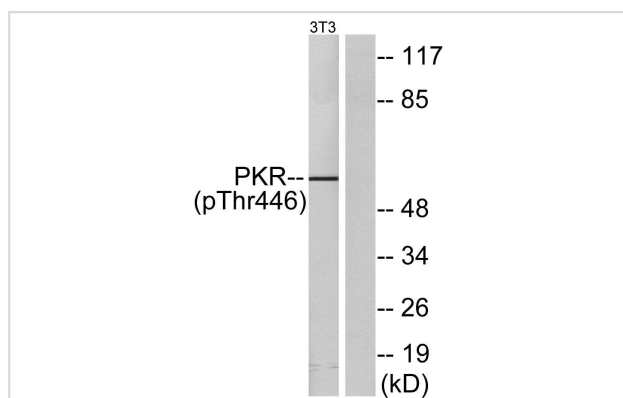
Description

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
Species Reactivity	Human,Mouse,Rat
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.
Conjugates	Unconjugated
Target Name	PKR
Modification	Phospho
Other Names	ADRB2; E2AK2; EIF2AK2; EIF2aK; PRKR
Accession No.	Swiss-Prot: P19525 NCBI Protein: NP_001129123.1
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

WB 1:500 - 1:2000.

Images



Western blot analysis of lysates from NIH/3T3 cells treated with IFN 2500U/ml 30', using PKR (Phospho-Thr446) Antibody. The lane on the right is blocked with the phosphopeptide.

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](#)

et al., Airborne particulate matter selectively activates endoplasmic reticulum stress response in the lung and liver tissues. In Am J Physiol Cell Physiol on 2010 Oct by Suzette Laing, Guohui Wang, et al..PMID: 20554909

, , (2010)

[PMID:20554909](#)

et al., 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](#)

Deo R Singh;Yitao Zhang;Sophia J White;Scott E Nelson;Stuart A Fogarty;Abigail S Pawelski;Alisha S Kansra;Shannon C Kenney et al., Inhibition of the Integrated stress response by Epstein-Barr virus oncoprotein LMP1 attenuates epithelial cell differentiation and lytic viral reactivation., , (2025)

[PMID:39951426](#)

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