

Datasheet for ABIN3030884  
**anti-EIF2AK2 antibody (AA 11-42)**

## 5 Images

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## Overview

Quantity:	0.4 mL
Target:	EIF2AK2
Binding Specificity:	AA 11-42
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF2AK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Immunogen:	A portion of amino acids 11-42 from the human protein was used as the immunogen for this PKR antibody.
Isotype:	Ig Fraction
Purification:	Purified

## Target Details

Target:	EIF2AK2
Alternative Name:	PKR ( <a href="#">EIF2AK2 Products</a> )
Background:	Interferon-induced, double-stranded RNA-activated protein kinase (PRKR/PKR) is a serine-threonine kinase. Activation by dsRNAs leads to autophosphorylation of PKR and allows the kinase to phosphorylate its natural substrate, the alpha subunit of eukaryotic protein synthesis

## Target Details

initiation factor-2 (EIF2-alpha), leading to the inhibition of protein synthesis. PRKR, which is involved in TLR signaling and mediates apoptosis in fibroblasts in response to viral infection and inflammatory cytokines, activates IKK and NFkB, thereby suppressing apoptosis. Apoptosis induced by live pathogenic gram-positive and gram-negative bacteria requires both TLR4 and PKR, possibly representing a major mechanism for pathogenic bacteria that use specific virulence factors to avoid detection and destruction by the innate immune system.

UniProt: [P19525](#)

Pathways: [DNA Damage Repair](#), [ER-Nucleus Signaling](#), [Hepatitis C](#)

## Application Details

Application Notes: Titration of the PKR antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100

Restrictions: For Research Use only

## Handling

Format: Liquid

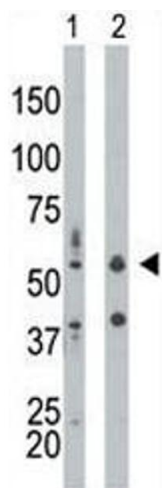
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

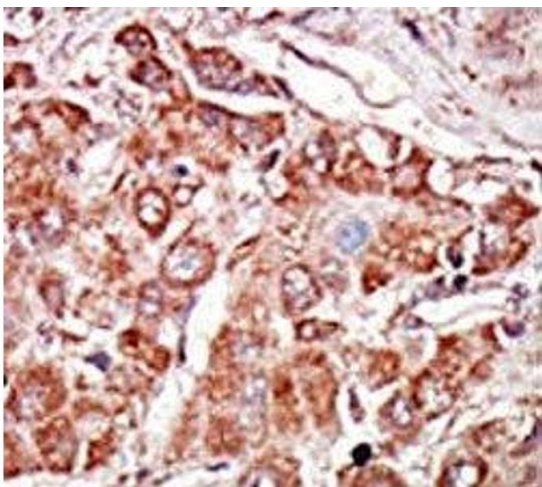
Storage: -20 °C

Storage Comment: Aliquot the PKR antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



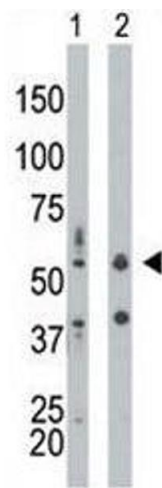
Western Blotting

**Image 1.** PKR antibody used in western blot to detect PRKR/PKR in mouse liver tissue lysate (Lane 1) and HepG2 cell lysate (2).



Immunohistochemistry

**Image 2.** IHC analysis of FFPE human hepatocarcinoma stained with the PKR antibody



Western Blotting

**Image 3.** PKR antibody used in western blot to detect PRKR/PKR in mouse liver tissue lysate (Lane 1) and HepG2 cell lysate (2).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3030884.