

Datasheet for ABIN3030885
anti-EIF2AK2 antibody (AA 519-550)[Go to Product page](#)

5 Images

Overview

Quantity:	0.4 mL
Target:	EIF2AK2
Binding Specificity:	AA 519-550
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 519-550 from the human protein was used as the immunogen for this PRKR antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

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

Target Details

factor-2 (EIF2-alpha), leading to the inhibition of protein synthesis. Human gamma-interferon (IFNG) mRNA exploits localized activation of PRKR in the cell to regulate its own translation. IFNG mRNA activates PRKR through a pseudoknot in its 5-prime untranslated region. The HCV envelope protein E2 contains a sequence identical with phosphorylation sites of the interferon-inducible protein kinase PRKR and the translation initiation factor EIF2-alpha, a target of PRKR. E2 inhibits the kinase activity of PRKR and blocks its inhibitory effect on protein synthesis and cell growth, which provides one mechanism by which HCV may circumvent the antiviral effect of interferon.

UniProt: [P19525](#)

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

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the PRKR 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

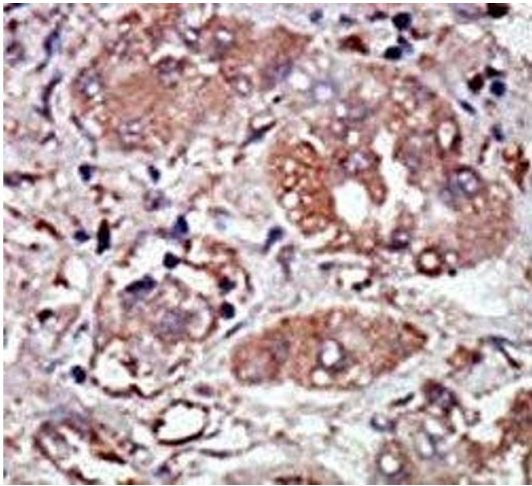
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

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

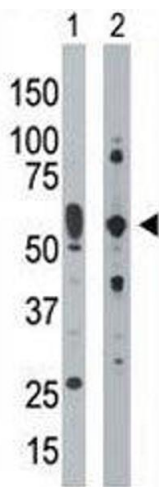
Storage: -20 °C

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



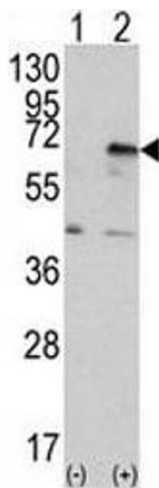
Immunohistochemistry

Image 1. IHC analysis of FFPE human hepatocarcinoma stained with the PRKR antibody



Western Blotting

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



Western Blotting

Image 3. Western blot analysis of PRKR antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EIF2AK2/PKR gene (2).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3030885.