

Polyclonal Antibody to Protein kinase R (PRKR)



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Polyclonal Antibody to Protein kinase R (PRKR)

Catalog No : IMG-5120A
Formulation : 100 ugs in 200 ul PBS containing 0.2% gelatin and 0.05% sodium azide. Sodium azide is highly toxic.
Isotype : Rabbit IgG
Clone : N/A
Purification : Protein G Chromatography
Species React : Human
Predicted React : Mouse, Rat
Host : Rabbit

Application

Western blot analysis: 0.5-3 ug/ml

Storage

Store at 4°C, stable for 6 months. For long-term storage, aliquot and store at -20°C.

Recommended Positive Control: Daudi cell lysate

Background

Principal Names: EIF2AK2; PRKR; PKR; EIF2AK1, eukaryotic translation initiation factor 2-alpha kinase 2, Interferon-inducible RNA-dependent protein kinase, P1/eIF-2A protein kinase, p68 kinase, Interferon-induced, double-stranded RNA-activated protein kinase; Official Gene Symbol: EIF2AK2 Gene ID: 5610 (Human) 19106(Mouse) Gene Map Locus: 2p22-p21(Human) 17 E2(Mouse) PRKR, a 68KDa protein, is an IFN-induced serine/threonine protein kinase consisting of two N-terminal RNA-binding regulatory domains and a functional C-terminal serine/threonine protein kinase domain. Activated by dsRNA produced during viral infections, it plays a key role in IFN induced-innate antiviral response, virus-induced apoptosis, cell growth & differentiation. Upon activation, PRKR gets autophosphorylated and catalyzes the phosphorylation of eIF2 alpha subunit, which leads to an inhibition of protein synthesis. It induces apoptosis by up-regulating Fas expression and mediates FADD/Caspase-8 death signaling pathway. Upon viral infection, it functions as a dual protein, sequentially activating both cell survival & cell death pathways using kinase independent and dependent strategies. PRKR regulates multiple pathways which include NF-kappaB activation, p53, p38, & PDGF signaling pathway. Its role has been implicated in tumor suppression & malignancy.

Antigen

A portion of amino acids 500-550 of mouse PRKR protein was used as the immunogen.

Application Notes

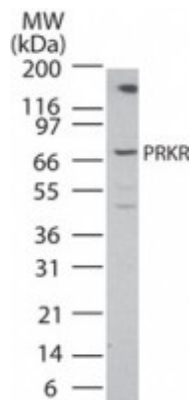
The NCBI accession number for PRKR is NP_035293. The amino acid sequence used is 92% homologous in rat.

Genebank Info (Protein)

NP_002750

Genebank Info (Nucleotide)

NP_035293



Western blot analysis of PRKR in human Daudi cell lysate using IMG-5120A at 1 ug/ml.

Related Products

1. 20301 [Goat Anti-Rabbit HRP Conjugate]

Reference

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