



Catalog #: APRab05278

Summary

PKR (phospho Thr258) Rabbit Polyclonal Antibody **Production Name**

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Rat, Mouse

Performance

Unconjugated Conjugation Modification Phosphorylated

Isotype IgG

Clonality Polyclonal **Form** Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type Buffer

preservative N.

Purification Affinity purification

Immunogen

Gene Name EIF2AK2

EIF2AK2; PKR; PRKR; Interferon-induced; double-stranded RNA-activated protein

Alternative Names kinase; Eukaryotic translation initiation factor 2-alpha kinase 2; eIF-2A protein kinase 2;

Interferon-inducible RNA-dependent protein kinase; P1/eIF-2A protein k

Gene ID 5610.0

P19525.The antiserum was produced against synthesized peptide derived from human SwissProt ID

PKR around the phosphorylation site of Thr258. AA range:226-275

Application

Dilution Ratio WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200

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Molecular Weight

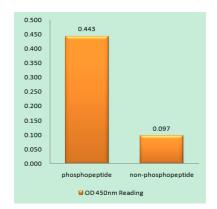
62kDa

Background

The protein encoded by this gene is a serine/threonine protein kinase that is activated by autophosphorylation after binding to dsRNA. The activated form of the encoded protein can phosphorylate translation initiation factor EIF2S1, which in turn inhibits protein synthesis. This protein is also activated by manganese ions and heparin. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeg, Oct 2011], catalytic activity:ATP + a protein = ADP + a phosphoprotein., enzyme regulation: Activity is markedly stimulated by manganese ions. Besides dsRNA, heparin is a potent activator of the kinase. Binding to dsRNA is required for dimerization leading to autophosphorylation in the activation loop and stimulation of function. Inhibited by vaccinia virus protein E3, probably via dsRNA sequestering, function: 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.,induction:By interferon.,PTM:Autophosphorylated on several Ser and Thr residues. Autophosphorylation of Thr-451 is dependent on Thr-446 and is stimulated by dsRNA binding and dimerization. Autophosphorylation apparently leads to the activation of the kinase, similarity: Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily., similarity: Contains 1 protein kinase domain., similarity: Contains 2 DRBM (double-stranded RNA-binding) domains., subunit: Homodimer. Interacts with STRBP (By similarity). Interacts with DNAJC3. Inhibited by direct interaction with viral proteins such as HCV E2, HCV NS5A and influenza A NS1. Activated by the interaction with HIV-1 Tat.,

Research Area

Image Data



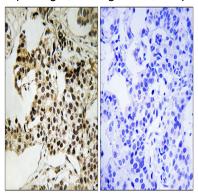
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Product Name: PKR (phospho Thr258) Rabbit Polyclonal Enkilife **Antibody**

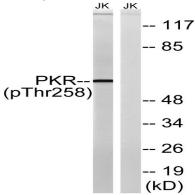


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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKR (Phospho-Thr258) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PKR (Phospho-Thr258) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with starved 24h, using PKR (Phospho-Thr258) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.