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Product datasheet for AP20748PU-M

PKR (EIF2AK2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western blot:** 1/500 - 1/1000. **Immunohistochemistry on paraffin sections:** 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of PKR protein. (region surrounding Lys440)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 74 kDa
Gene Name:	eukaryotic translation initiation factor 2 alpha kinase 2
Database Link:	Entrez Gene 5610 Human P19525

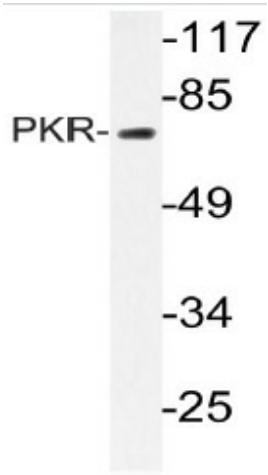
View online »

Background: An interferon-inducible, RNA-dependent protein serine/threonine kinase (PKR) has been described. PKR in earlier literature is variously known as DAI, dsJ, PI kinase, p65, p67 or TIK for the mouse kinase; and p68 or p69 for the human kinase. The PKR kinase substrate is the alpha subunit of protein synthesis initiation factor eIF-2. Phosphorylation of eIF-2alpha on serine-51 results in inhibition of translation. Molecular cDNA clones have been isolated from both human and mouse cells. The serine/threonine kinase catalytic domains map to the carboxy terminal half of the protein while the RNA-binding domains are located in the amino terminal region. Three kinds of regulation of PKR enzymatic activity have been described. These include transcriptional regulation in response to interferon, an autoregulatory mechanism controlling PKR expression at the level of translation and post-translational regulation by RNA mediated autophosphorylation.

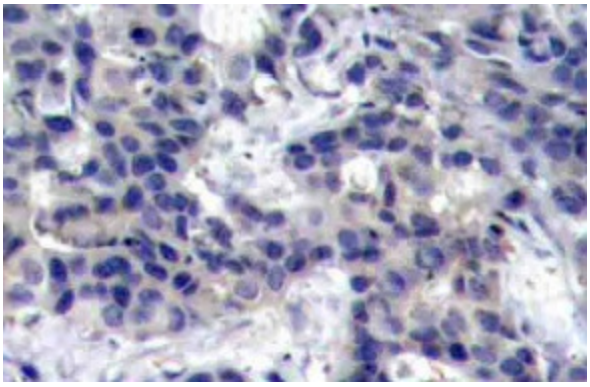
Synonyms: eIF-2A protein kinase 2, PRKR

Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Product images:



Western blot (WB) analyzes of PKR antibody (Cat.-No.: [AP20748PU-N]) in extracts from K562 cells.



Immunohistochemistry (IHC) analyzes of PKR antibody (Cat.-No. [AP20748PU-N]) in paraffin-embedded human breast carcinoma tissue.