

Anti-Phospho-EIF2AK2 (Thr446) Polyclonal Antibody 2

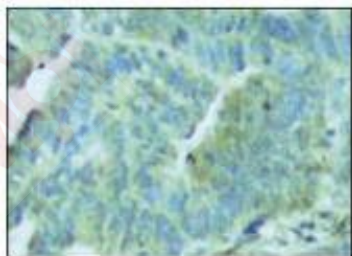
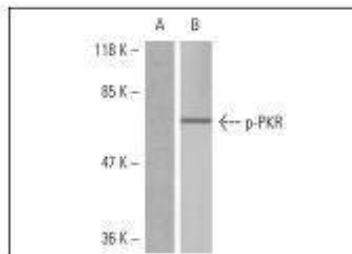
Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 68 kDa.
Purification:	Immunogen affinity purified

Applications

Verified Activity:

1. Western blot analysis of phosphorylated PKR expression in K-562 (A) and starved K-562 (B) whole cell lysates.
2. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human colon carcinoma tissue showing cytoplasmic staining.



Application:	IF,IHC,IP,WB
Recommended	WB: 1:100-1000; IHC: 1:50-500; IP: 1-2 µg per 100-500 µg of total protein(1 ml of cell lysate)

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Amino acid sequence containing phosphorylated Thr 446 of PKR of human origin

Antigen Species: Human

Uniprot ID: P19525

Synonyms: p68 kinase;EIF2AK2 (phospho-Thr446);EIF2AK2 (p-T446);eIF2A protein kinase2;EIF2AK2 (pT446);EIF2AK2 (p-Thr446)

Research Background

An interferon-inducible, RNA-dependent protein serine/threonine kinase, PKR has various designations. Mouse PKR is known as DAI, dsj, PI kinase, p65, p67 or TIK, whereas human PKR is known as p68 or p69. PKR phosphorylates its substrate, a subunit of protein synthesis initiation factor eIF-2 on Ser 51 to inhibit translation. PKR contains two dsRNA binding motifs required for its activation by dsRNA. Three kinds of regulation of PKR enzymatic activity occur, and these include transcriptional regulation in response to interferon, an autoregulatory mechanism controlling PKR expression at the level of translation, and posttranslational regulation by RNA mediated autophosphorylation. Human PKR contains at least 15 autophosphorylation sites, but only Thr-446 and Thr-451 in the activation loop are critical for its kinase activity. Thr-446 is the in vivo autophosphorylation site of PKR. Mutation of threonine to alanine at position 446 substantially reduces PKR function, and mutant kinase containing Ala-451 is completely inactive.

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