



EIF2AK2 blocking peptide (CDBP5927)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 RefSeq, Oct 2011]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	EIF2AK2 eukaryotic translation initiation factor 2-alpha kinase 2 [Homo sapiens (human)]
Official Symbol	EIF2AK2
Synonyms	EIF2AK2; eukaryotic translation initiation factor 2-alpha kinase 2; PKR; PRKR; EIF2AK1; PPP1R83; interferon-induced, double-stranded RNA-activated protein kinase; p68 kinase; eIF-2A protein kinase 2; P1/eIF-2A protein kinase; tyrosine-protein kinase EIF2AK2; interferon-inducible eIF2alpha kinase; double stranded RNA activated protein kinase; protein phosphatase 1, regulatory subunit 83; protein kinase, interferon-inducible double stranded RNA dependent

Entrez Gene ID	5610
mRNA Refseq	NM_001135651
Protein Refseq	NP_001129123
UniProt ID	P19525
Pathway	Antiviral mechanism by IFN-stimulated genes; Ceramide signaling pathway; Cytokine Signaling in Immune system; Disease; Epstein-Barr virus infection; Hepatitis C; Herpes simplex infection; Host Interactions with Influenza Factors
Function	ATP binding; double-stranded RNA binding; eukaryotic translation initiation factor 2alpha kinase activity; non-membrane spanning protein tyrosine kinase activity; poly(A) RNA binding; protein binding; protein kinase activity; protein kinase activity; protein phosphatase type 2A regulator activity; protein serine/threonine kinase activity