

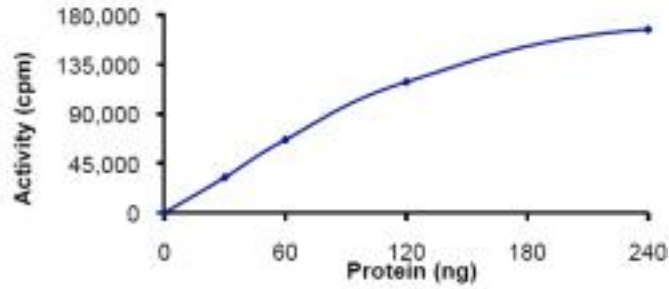
EIF2AK2

Recombinant Human EIF2AK2 GST Active

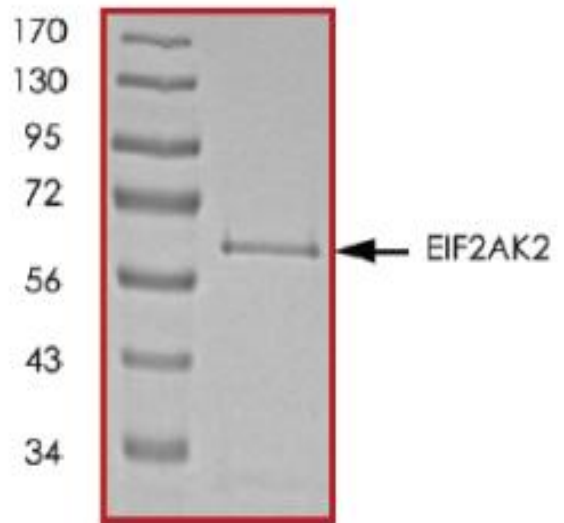
Catalog No.	CRE132A CRE132B	Quantity:	5 µg 10 µg
Alternate Names:	PKR, PRKR, EIF2AK1		
Description:	Recombinant human EIF2AK2 (aa 252-end) with an N-terminal GST tag.		
Concentration:	1.0 mg/ml		
Gene ID:	5610		
Protein Accession No:	NM_002759		
Source:	Sf9 insect cells using baculovirus		
Molecular Weight:	~ 64 kDa		
Formulation:	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5 + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol.		
Purity:	>85% by densitometry		
Specific Activity:	53 nmol/min/mg as per activity assay protocol.		
Applications:	Kinase Assay Western Blot		
Storage & Stability:	Store product at -80°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles		
Background:	EIF2AK2 (also known as double-stranded RNA-activated protein kinase) is a protein kinase that has been shown to be involved in HIV/gp120-associated neurodegeneration. EIF2AK2 acts as a critical mediator of gp120 neurotoxicity and is a substrate for a family of protein kinases that respond to various forms of environmental stress. Activation of EIF2AK2 leads to its autophosphorylation and then phosphorylation of its natural substrate, the alpha subunit of eukaryotic protein synthesis initiation factor-2. EIF2AK2 plays a critical role in mRNA translation, cell proliferation and apoptosis. A novel cross-talk between the EIF2AKs and p53 has been shown that has implications in cell proliferation and tumorigenesis		



The specific activity of EIF2AK2 was determined to be 53 nmol /min/mg as per internal activity assay protocol.



The purity of EIF2AK2 was determined to be >85% by densitometry, approx. MW 64kDa.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

