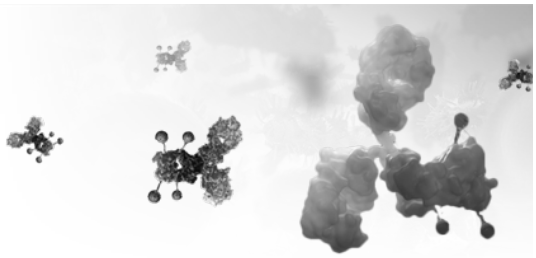

Human EIF2AK2 peptide (DAG-P1030)

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
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily.Contains 2 DRBM (double-stranded RNA-binding) domains.Contains 1 protein kinase domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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; 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 kinase, interferon-inducible double stranded RNA dependent;

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Entrez Gene ID	5610
mRNA Refseq	NM_001135651.2
Protein Refseq	NP_001129123.1
UniProt ID	P19525
Chromosome Location	2p22-p21
Pathway	Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Ceramide signaling pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Disease, organism-specific biosystem; Epstein-Barr virus infection, organism-specific biosystem; Epstein-Barr virus infection, conserved biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection
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; prot

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