



Human EIF2AK1 peptide (DAG-P0355)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene acts at the level of translation initiation to downregulate protein synthesis in response to stress. The encoded protein is a kinase that can be inactivated by hemin. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]
Specificity	Expressed predominantly in erythroid cells. At much lower levels, expressed in hepatocytes (at protein level).
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily. Contains 2 HRM (heme regulatory motif) repeats. 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	EIF2AK1 eukaryotic translation initiation factor 2-alpha kinase 1 [Homo sapiens (human)]
Official Symbol	EIF2AK1
Synonyms	EIF2AK1; eukaryotic translation initiation factor 2-alpha kinase 1; HCR; HRI; heme-regulated inhibitor; heme-regulated repressor; heme-controlled repressor; heme sensitive initiation factor 2a kinase; heme regulated initiation factor 2 alpha kinase; heme-regulated initiation factor 2-alpha kinase; hemin-sensitive initiation factor 2-alpha kinase; heme-regulated eukaryotic initiation factor eIF-2-alpha kinase;

Entrez Gene ID	27102
mRNA Refseq	NM_001134335.1
Protein Refseq	NP_001127807.1
UniProt ID	Q9BQI3
Chromosome Location	7p22
Pathway	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, conserved biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Measles, organism-specific biosystem; Measles, conserved biosystem; Protein processing in endoplasmic reticulum, organism-specific biosy
Function	ATP binding; eukaryotic translation initiation factor 2alpha kinase activity; heme binding; protein homodimerization activity;