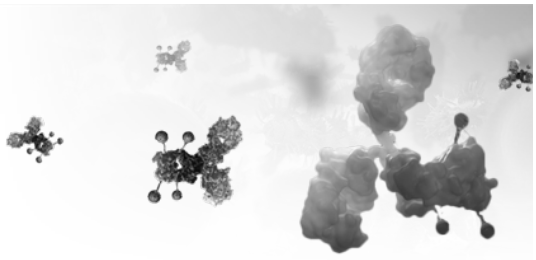

Human EIF4A2 peptide (DAG-P1564)

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

PRODUCT INFORMATION

Antigen Description	Eukaryotic initiation factor 4A plays an important role in the binding of mRNA to the 43S preinitiation complex when protein synthesis begins. Two highly homologous forms of functional EIF4A genes, Eif4a1 and Eif4a2, have been isolated in mice; yeast cells also possess 2 EIF4A genes, TIF1 and TIF2. The murine Eif4a and yeast TIF genes appear to belong to a DEAD-box gene family, whose members exhibit extensive amino acid similarity and contain the asp-glu-ala-asp (DEAD) sequence. DEAD-box genes have been identified in species ranging from E-coli to humans. Their function appears to be related to transcriptional/translational regulation (referenced from OMIM).
Conjugate	Unconjugated
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	EIF4A2 eukaryotic translation initiation factor 4A2 [Homo sapiens (human)]
Official Symbol	EIF4A2
Synonyms	EIF4A2; eukaryotic translation initiation factor 4A2; DDX2B; EIF4A; EIF4F; BM-010; eIF4A-II; eIF-4A-II; eukaryotic initiation factor 4A-II; ATP-dependent RNA helicase eIF4A-2; eukaryotic translation initiation factor 4A, isoform 2;
Entrez Gene ID	1974
mRNA Refseq	NM_001967.3

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Protein Refseq	NP_001958.2
UniProt ID	Q14240
Chromosome Location	3q28
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Deadenylation of mRNA, organism-specific biosystem; Deadenylation-dependent mRNA decay, organism-specific biosystem; Eukaryotic Translation Initiation, organism
Function	ATP binding; ATP-dependent helicase activity; helicase activity; poly(A) RNA binding; protein binding; translation initiation factor activity;

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