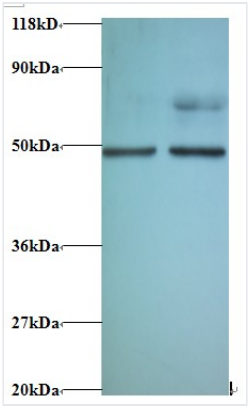
Eukaryotic Initiation Factor 4a-II (eIF4A-I) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Eukaryotic initiation factor 4A-II (eIF4A-I), Polyclonal Antibody
Full Product Name	Rabbit anti- human Eukaryotic initiation factor 4A-II polyclonal Antibody, FITC conjugated
Product Gene Name	anti-eIF4A-I antibody
Product Synonym Names	EIF4A2; DDX2B; EIF4F; eIF-4A-III; ATP-dependent RNA helicase eIF4A-2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: eIF4A-I (MBS715216) FITC Conjugated Antibody: eIF4A-I (MBS715154)
Molecular Weight	46,489 Da
OMIM	601102
3D Structure	ModBase 3D Structure for Q14240
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Immunogen	Recombinant human Eukaryotic initiation factor 4A-II protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-14215
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-eIF4A-I antibody	ELISA (EIA)
Related Product Information for anti-eIF4A-I antibody	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).
Other Notes	Small volumes of anti-eIF4A-I antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for eIF4A-I purchase	MBS715154 is an antibody targeting eIF4A-I. Also known as Rabbit anti- human Eukaryotic initiation factor 4A-II polyclonal Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.



Testing Data of anti-eIF4A-I antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for eIF4A-I. It may not necessarily be applicable to this product.

NCBI GI #	83700235
NCBI GeneID	1974
NCBI Accession #	NP_001958.2
UniProt Primary Accession #	Q14240
UniProt Secondary Accession #	Q53XJ6; Q96B90; Q96EA8; D3DNU9
UniProt Related Accession #	Q14240
GenBank Nucleotide #	NM_001967.3
NCBI Official Full Name	eukaryotic initiation factor 4A-II
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4A2
NCBI Official Symbol	EIF4A2
NCBI Official Synonym Symbols	DDX2B; EIF4A; EIF4F; BM-010; eIF4A-II; eIF-4A-II
UniProt Protein Name	Eukaryotic initiation factor 4A-II
UniProt Synonym Protein Names	ATP-dependent RNA helicase eIF4A-2
Protein Family	Eukaryotic initiation factor
UniProt Gene Name	EIF4A2
UniProt Synonym Gene Names	DDX2B; EIF4F; eIF-4A-II; eIF4A-II
UniProt Entry Name	IF4A2_HUMAN
NCBI Protein Information	eukaryotic initiation factor 4A-II

UniProt Comments for eIF4A-I	EIF4A2: ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon. Belongs to the DEAD box helicase family. eIF4A subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Helicase; Translation; RNA-binding; Translation initiation; EC 3.6.4.13 Chromosomal Location of Human Ortholog: 3q28 Cellular Component: cytosol; eukaryotic translation initiation factor 4F complex; perinuclear region of cytoplasm Molecular Function: ATP binding; ATP-dependent RNA helicase activity; ATPase activity; helicase activity; protein binding; translation initiation factor activity Biological Process: cellular protein metabolic process; cytokine and chemokine mediated signaling pathway; gene expression; mRNA catabolic process, deadenylation-dependent decay; poly(A) tail shortening; regulation of translational initiation; RNA secondary structure unwinding; translation; translational initiation; viral reproduction
Research Articles on eIF4A-I	**1.** expression is an independent prognostic factor for patients with non-small-cell lung cancer for both overall survival and disease-free survival
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