

eIF4A3 Monoclonal Antibody | anti-eIF4A3 antibody

eIF4A3 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA314350	Recombinant Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

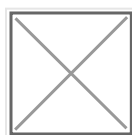
PRODUCT SYNONYMS

eIF4A3; Monoclonal Antibody; eIF4A3 Rabbit mAb; Fal1; RCPS; DDX48; MUK34; NUK34; NMP265; eIF4AIII; anti-eIF4A3 antibody

PRODUCT SPECIFICATIONS

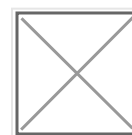
Host	Recombinant Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	S05-1B7
Purity/Purification	Affinity Purified
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration	0.3mg/ml (varies by lot)
Applicable Applications for anti-eIF4A3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human Eif4a3
Conjugation	Unconjugated
Modification	Unmodification
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.

IMAGES



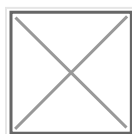
IHC (Immunohistochemistry)

Immunohistochemistry of Eif4a3 in paraffin-embedded Human tonsil using Eif4a3 Rabbit mAb at dilution 1/50



IF (Immunofluorescence)

Immunofluorescence of Eif4a3 (green) in Hela using Eif4a3 Rabbit mAb at dilution 1/5, and DAPI(blue)



WB (Western Blot)

Western blot detection of eIF4A3 in Hela,CHO-K1,C6 cell lysates using eIF4A3 Rabbit mAb(1:500 diluted).Predicted band size:47kDa.Observed band size:47kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-eIF4A3 antibody	ATP-dependent RNA helicase (PubMed:16170325). Involved in pre-mRNA splicing as component of the spliceosome (PubMed:11991638, PubMed:22961380, PubMed:28502770, PubMed:28076346). Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Its RNA-dependent ATPase and RNA-helicase activities are induced by CASC3, but abolished in presence of the MAGOH-RBM8A heterodimer, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. The inhibition of ATPase activity by the MAGOH-RBM8A heterodimer increases the RNA-binding affinity of the EJC. Involved in translational enhancement of spliced mRNAs after formation of the 80S ribosome complex. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Shows higher affinity for single-stranded RNA in an ATP-bound core EJC complex than after the ATP is hydrolyzed. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the function is different from the established EJC assembly (PubMed:22203037). Involved in craniofacial development (PubMed:24360810).
Product Categories/Family for anti-eIF4A3 antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	20532400
NCBI GeneID	9775
UniProt Accession #	P38919; Q15033; Q6IBQ2; Q96A18
Molecular Weight	411
NCBI Official Full Name	Eukaryotic initiation factor 4A-III
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4A3
NCBI Official Symbol	EIF4A3
NCBI Official Synonym Symbols	RCPS; DDX48; MUK34; NUK34; NMP265; eIF4AIII
NCBI Protein Information	eukaryotic initiation factor 4A-III; NMP 265; hNMP 265; eIF4A-III; eIF-4A-III; DEAD box protein 48; nuclear matrix protein 265; ATP-dependent RNA helicase DDX48; ATP-dependent RNA helicase eIF4A-3; DEAD (Asp-Glu-Ala-Asp) box polypeptide 48; eukaryotic ini
UniProt Protein Name	Eukaryotic initiation factor 4A-III
UniProt Gene Name	EIF4A3
UniProt Synonym Gene Names	DDX48; KIAA0111; eIF-4A-III; eIF4A-III; NMP 265; hNMP 265
UniProt Entry Name	IF4A3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/eif4a3-antibody-clone-s05-1b7-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/314350>