

Rabbit EIF4A3 Polyclonal Antibody | anti-EIF4A3 antibody

EIF4A3 Antibody

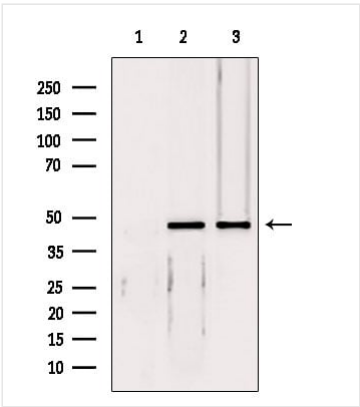
CATALOG # AAA322898	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

EIF4A3; Polyclonal Antibody; EIF4A3 Antibody; ATP-dependent RNA helicase DDX48; ATP-dependent RNA helicase eIF4A-3; DDX48; DEAD box protein 48; eIF-4A-III; eIF4A-III; eIF4AIII; Eukaryotic initiation factor 4A-III; Eukaryotic initiation factor 4A-like NUK-34; Eukaryotic translation initiation factor 4A isoform 3; hNMP 265; IF4A3_HUMAN; NMP 265; NMP265; Nuclear matrix protein 265; NUK34; anti-EIF4A3 antibody

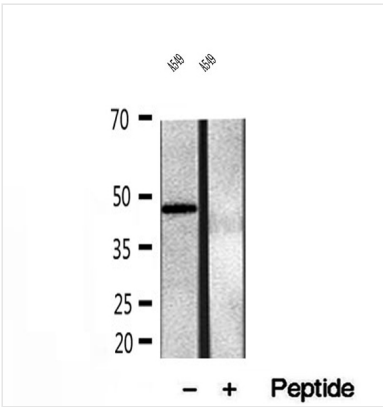
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EIF4A3 antibody detects endogenous levels of EIF4A3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	411
Applicable Applications for anti-EIF4A3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EIF4A3.
Subcellular Location	Nucleus. Nucleus Speckle. Cytoplasm. Nucleocytoplasmic shuttling protein. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. Detected in dendritic layer as well as the nuclear and cytoplasmic (somatic) compartments of neurons. Colocalizes with STAU1 and FMR1 in dendrites.
Tissue Specificity	Ubiquitously expressed.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



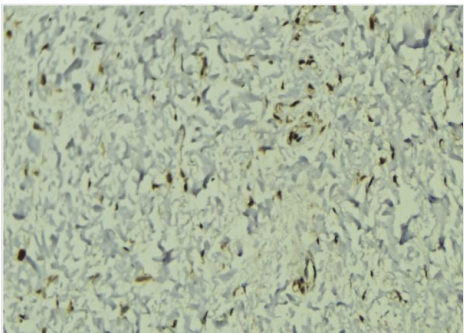
WB (Western Blot)

Western blot analysis of extracts from various samples, using EIF4A3 antibody. Lane 1: HepG2 treated with blocking peptide. Lane 2: HepG2; Lane 3: 293;



WB (Western Blot)

Western blot analysis of extracts of A549 cells, using EIF4A3 antibody.



IHC (Immunohistochemistry)

AAA322898 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF4A3 antibody	Function: 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). Subunit Structure: Identified in the spliceosome C complex (PubMed:11991638, PubMed:22961380, PubMed:28502770, PubMed:28076346). Part of the mRNA splicing-dependent exon junction complex (EJC) complex; the core complex contains CASC3, EIF4A3, MAGOH and RBM8A. Interacts with CASC3, MAGOH, NXF1, RBM8A and ALYREF/THOC4. May interact with NOM1. Interacts with POLDIP3. Interacts with CWC22 and PRPF19 in an RNA-independent manner. Direct interaction with CWC22 is mediated by the helicase C-terminal domain. Full interaction with CWC22 occurs only when EIF4A3 is not part of the EJC and prevents EIF4A3 binding to RNA. Interacts with NCBP3 (PubMed:26382858). Similarity: Belongs to the DEAD box helicase family. eIF4A subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7661920
NCBI GeneID	9775
NCBI Accession #	NP_055555.1
NCBI GenBank Nucleotide #	NM_014740.4
UniProt Accession #	P38919; Q15033; Q6IBQ2; Q96A18
Molecular Weight	Observed: 47 kDa Predicted: 47 kDa
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	Fal1; RCPS; DDX48; MUK34; NUK34; NMP265; eIF4AIII; eIF4A-III; eIF-4A-III
NCBI Protein Information	eukaryotic initiation factor 4A-III
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

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/polyclonal/eif4a3-antibody-immunohistochemistry-western-blot-elisa/322898>