

Rabbit EIF4A1 Polyclonal Antibody | anti-EIF4A1 antibody

EIF4A1 Antibody

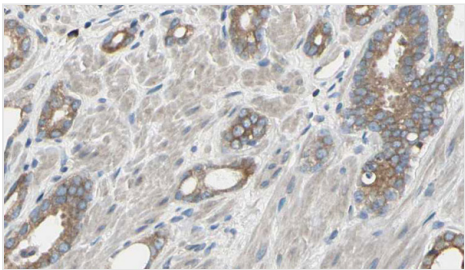
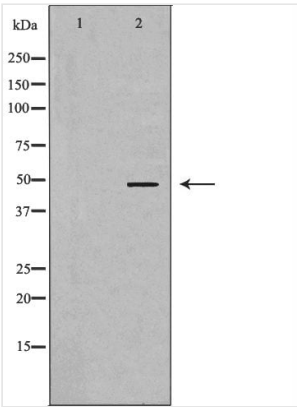
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326959	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EIF4A1; Polyclonal Antibody; EIF4A1 Antibody; ATP-dependent RNA helicase eIF4A-1; DDX2; DDX2A; eIF 4A I; eIF-4A-I; EIF4A; eIF4A I; eIF4A-I; Eukaryotic initiation factor 4A-I; Eukaryotic initiation factor 4AI; eukaryotic translation initiation factor 4A; isoform 1; Eukaryotic translation initiation factor 4A1; IF4A1_HUMAN; anti-EIF4A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EIF4A1 antibody detects endogenous levels of total EIF4A1
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	347
Applicable Applications for anti-EIF4A1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EIF4A1
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326959 at 1/100 staining Human prostate 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.

WB (Western Blot)
Western blot analysis of HeLa whole cell lysates, using EIF4A1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF4A1 antibody

Description: EIF4A1 is an 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.

Function: 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.

Subunit Structure: eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. Interacts with PAIP1, EIF4E and UPF2. Found in a complex with XPO7, EIF4A1, ARHGAP1, VPS26A, VPS29, VPS35 and SFN. May interact with NOM1. Interacts with PDCD4; this interferes with the interaction between EIF4A and EIF4G. Interacts with RBM4. Interacts with human cytomegalovirus/HHV-5 protein UL69.

Similarity: Belongs to the DEAD box helicase family. eIF4A subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	325197164
NCBI GeneID	1973
NCBI Accession #	NP_001191439.1
NCBI GenBank Nucleotide #	NM_001204510.1
UniProt Accession #	P60842; P04765; Q5U018; Q61516; B2R6L8; D3DTP9; J3QLC4
Molecular Weight	Observed: 46 kDa Predicted: 47 kDa
NCBI Official Full Name	eukaryotic initiation factor 4A-I isoform 2
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4A1
NCBI Official Symbol	EIF4A1
NCBI Official Synonym Symbols	DDX2A; EIF4A; EIF-4A; eIF4A-I; eIF-4A-I
NCBI Protein Information	eukaryotic initiation factor 4A-I
UniProt Protein Name	Eukaryotic initiation factor 4A-I
UniProt Gene Name	EIF4A1

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/eif4a1-antibody-immunohistochemistry-western-blot-elisa/326959>