

Anti-eIF4A2 Picoband Antibody

Catalog # ABO12444

Product Information

Application	WB, IHC-P
Primary Accession	Q14240
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Eukaryotic initiation factor 4A-II(EIF4A2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1974
Other Names	Eukaryotic initiation factor 4A-II, eIF-4A-II, eIF4A-II, 3.6.4.13, ATP-dependent RNA helicase eIF4A-2, EIF4A2, DDX2B, EIF4F
Calculated MW	46402
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat
Source	Eukaryota
Protein Name	Eukaryotic initiation factor 4A-II
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human eIF4A2 (5-31aa SADYNREHGGPEGMDPDGVIESNWNEI), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.

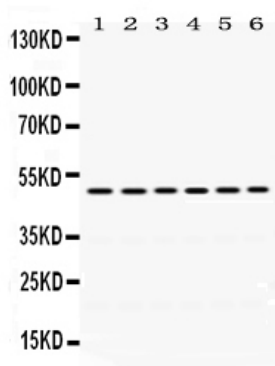
Protein Information

Name	EIF4A2
Synonyms	DDX2B, EIF4F
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.

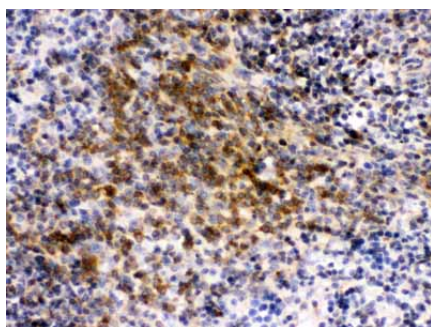
Background

Eukaryotic initiation factor 4A-II is a protein that in humans is encoded by the EIF4A2 gene. It is mapped to 18p11.2. 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.

Images

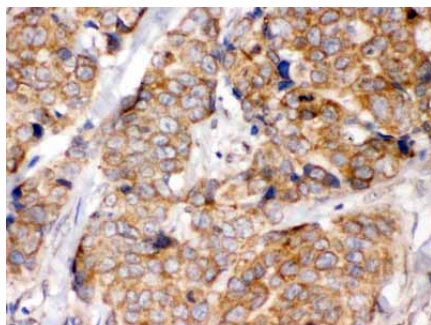
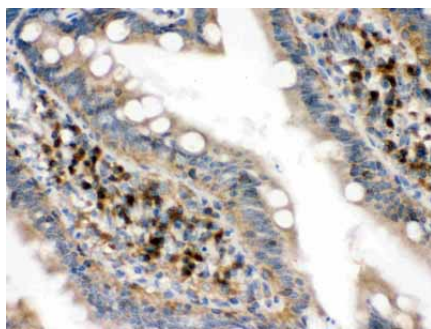


Anti- eIF4A2 Picoband antibody, ABO12444, Western blotting
All lanes: Anti eIF4A2 (ABO12444) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: Rat Thymus Tissue Lysate at 50ug
Lane 3: Rat Kidney Tissue Lysate at 50ug
Lane 4: HELA Whole Cell Lysate at 40ug
Lane 5: SGC Whole Cell Lysate at 40ug
Lane 6: 22RV1 Whole Cell Lysate at 40ug
Predicted bind size: 49KD
Observed bind size: 49KD



Anti- eIF4A2 Picoband antibody, ABO12444, IHC(P)
IHC(P): Mouse Spleen Tissue

Anti- eIF4A2 Picoband antibody, ABO12444, IHC(P)
IHC(P): Rat Intestine Tissue



Anti- eIF4A2 Picoband antibody, ABO12444, IHC(P)IHC(P):
Human Mammary Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.