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EIF4A2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9190B

Specification

EIF4A2 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q14240
Other Accession	Q5RKI1, P10630, Q4R4Y9, Q8JFP1, Q3SZ65, P29562, P60843, Q4R8K5, P60842, Q3SZ54
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse, Rabbit, Chicken, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**46402**
Antigen Region	**333-360**

EIF4A2 Antibody (C-term) - Additional Information

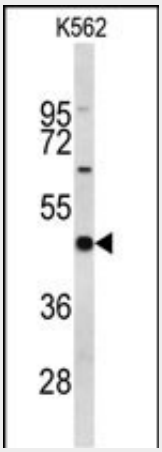
Gene ID 1974

Other Names
Eukaryotic initiation factor 4A-II, eIF-4A-II, eIF4A-II, ATP-dependent RNA helicase eIF4A-2, EIF4A2, DDX2B, EIF4F

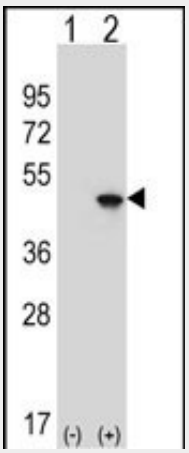
Target/Specificity
This EIF4A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 333-360 amino acids from the C-terminal region of human EIF4A2.

Dilution
WB~~1:4000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.



Western blot analysis of EIF4A2 Antibody (C-term) (Cat. #AP9190b) in K562 cell line lysates (35ug/lane). EIF4A2 (arrow) was detected using the purified Pab.



Western blot analysis of EIF4A2 (arrow) using rabbit polyclonal EIF4A2 Antibody (C-term) (Cat. #AP9190b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the EIF4A2 gene.

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Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

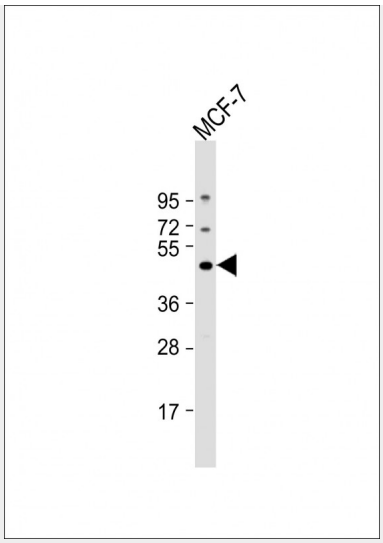
Precautions
EIF4A2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF4A2 Antibody (C-term) - Protein Information

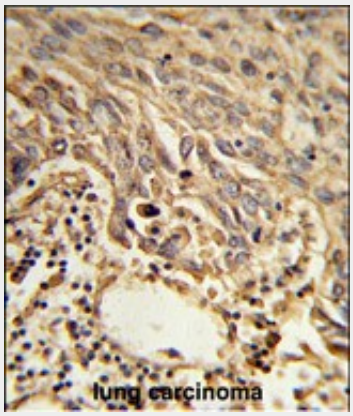
Name EIF4A2

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.



Anti-EIF4A2 Antibody (C-term) at 1:4000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with EIF4A2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

EIF4A2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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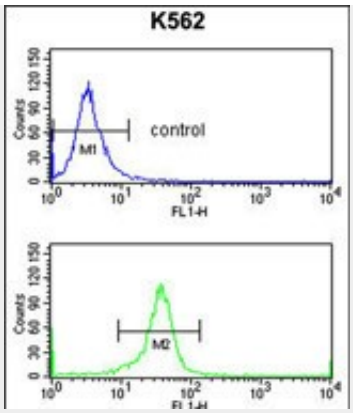

EIF4A2 Antibody (C-term) (Cat. #AP9190b) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

EIF4A2 Antibody (C-term) - Background

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).

EIF4A2 Antibody (C-term) - References

Martins-de-Souza,D., et.al., J Neural Transm 116 (3), 275-289 (2009)
Lin,C.J., et.al., Cancer Res. 68 (13), 5326-5334 (2008)