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EIF4A1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7262a

Specification

EIF4A1 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P60842
Other Accession	P60843, Q4R8K5, Q3SZ54
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**46154**
Antigen Region	**1-30**

EIF4A1 Antibody (N-term) - Additional Information

Gene ID 1973

Other Names
Eukaryotic initiation factor 4A-I, eIF-4A-I, eIF4A-I, ATP-dependent RNA helicase eIF4A-1, EIF4A1, DDX2A, EIF4A

Target/Specificity
This EIF4A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human EIF4A1.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
EIF4A1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF4A1 Antibody (N-term) - Protein Information

Name EIF4A1

Synonyms DDX2A, EIF4A

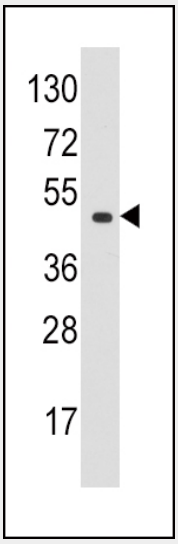
Function ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.

EIF4A1 Antibody (N-term) - Protocols

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

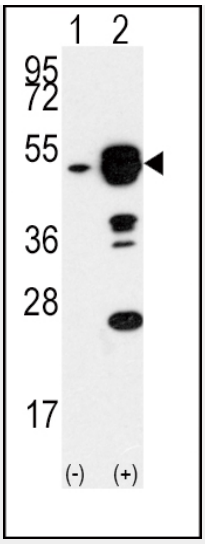
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EIF4A1 Antibody (N-term) - Images

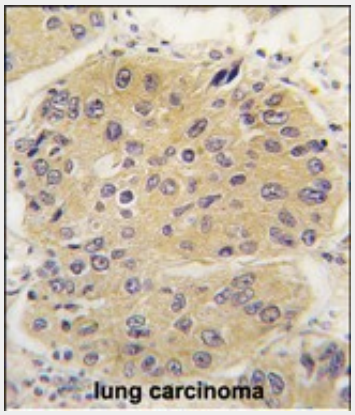


Western blot analysis of anti-EIF4A1 Pab (Cat. #AP7262a) in K562 cell line lysates (35ug/lane). EIF4A1(arrow) was detected using the purified Pab.

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Western blot analysis of EIF4A1 (arrow) using rabbit polyclonal EIF4A1 Antibody (N-term) (Cat.#AP7262a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EIF4A1 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with EIF4A1 antibody (N-term) (Cat.#AP7262a), 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.

EIF4A1 Antibody (N-term) - Background

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.

EIF4A1 Antibody (N-term) - References

Suzuki,C., Proc. Natl. Acad. Sci. U.S.A. 105 (9), 3274-3279 (2008) Kim,W.J., EMBO J. 26 (24), 5020-5032 (2007)