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Anti-eIF4A2 Picoband Antibody

Catalog # ABO12444

Specification

Anti-eIF4A2 Picoband Antibody - 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.

Anti-eIF4A2 Picoband Antibody - 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 MW KDa

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

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 r˚Constitution, 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.**

Anti-eIF4A2 Picoband Antibody - Protein Information

Name EIF4A2

Synonyms DDX2B, EIF4F

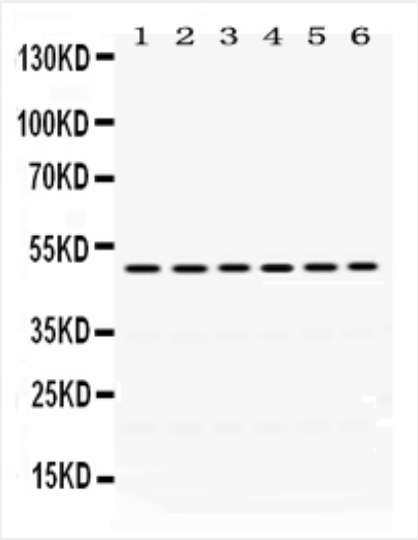
Function
ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding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

Anti-eIF4A2 Picoband Antibody - Protocols

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

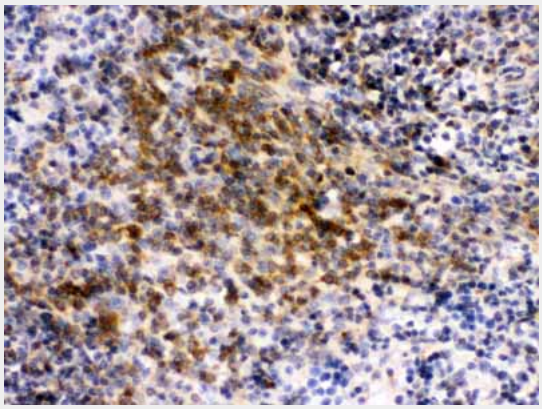
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-eIF4A2 Picoband Antibody - Images

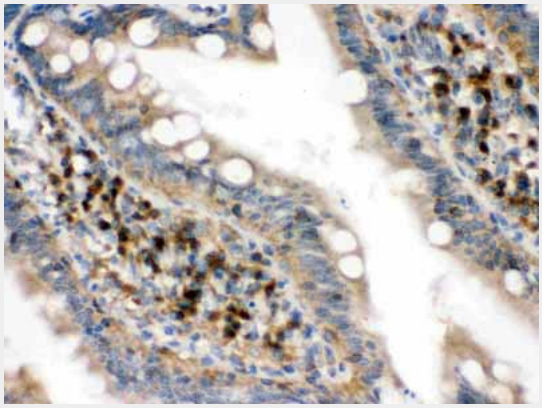


Anti- eIF4A2 Picoband antibody, ABO12444, Western blottingAll lanes: Anti eIF4A2 (ABO12444) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Thymus Tissue Lysate at 50ugLane 3: Rat Kidney Tissue Lysate at 50ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: SGC Whole Cell

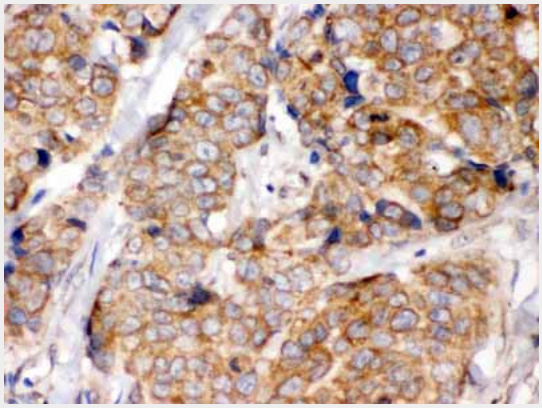
Lysate at 40ugLane 6: 22RV1 Whole Cell Lysate at 40ugPredicted bind size: 49KDObserved bind size: 49KD



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

Anti-eIF4A2 Picoband Antibody - 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.