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KD-Validated Anti-EIF4A1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1357

Specification

KD-Validated Anti-EIF4A1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P60842
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 46 kDa , observed, 46 kDa KDa**
Gene Name	**EIF4A1**
Aliases	**EIF4A1; Eukaryotic Translation Initiation Factor 4A1; DDX2A; EIF-4A; EIF4A; ATP-Dependent RNA Helicase EIF4A-1; Eukaryotic Initiation Factor 4A-I; EIF-4A-I; EIF4A-I; Eukaryotic Translation Initiation Factor 4A, Isoform 1; Eukaryotic Translation Initiation Factor 4A; Eukaryotic Initiation Factor 4A; EC 3.6.4.13; EC 3.6.1**
Immunogen	**A synthesized peptide derived from human eIF4A1**

KD-Validated Anti-EIF4A1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**1973**

Other Names
Eukaryotic initiation factor 4A-I, eIF-4A-I, eIF4A-I, 3.6.4.13, ATP-dependent RNA helicase eIF4A-1, EIF4A1, DDX2A, EIF4A

KD-Validated Anti-EIF4A1 Rabbit Monoclonal Antibody - 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 (PubMed:20156963). 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. As a result, promotes cell proliferation and growth (PubMed:20156963).

Cellular Location
Cytoplasm, perinuclear region. Cell membrane. Cytoplasm, Stress granule. Note=Colocalizes with

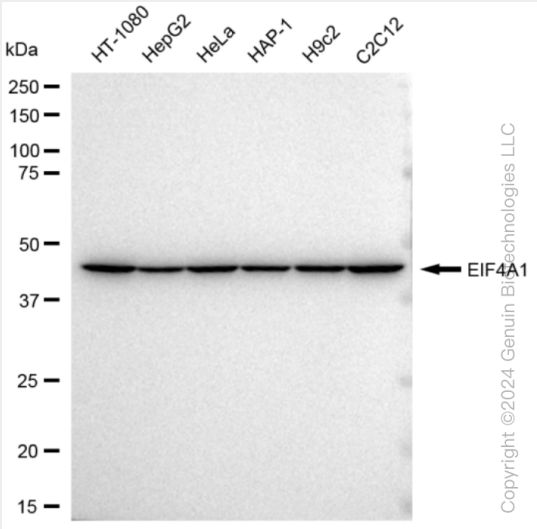
PKP1 in stress granules following arsenate or hydrogen peroxide treatment

KD-Validated Anti-EIF4A1 Rabbit Monoclonal Antibody - Protocols

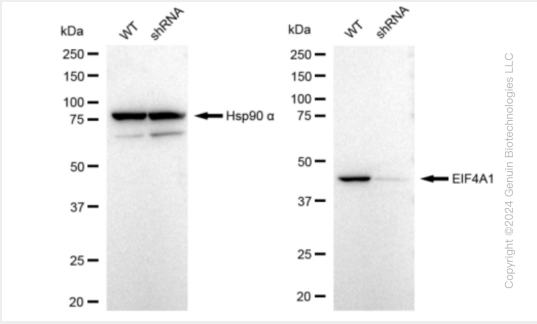
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-EIF4A1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-EIF4A1 antibody (Cat#AGI1357). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-EIF4A1 antibody (Cat#AGI1357, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-EIF4A1 antibody (Cat#AGI1357). EIF4A1 expression in wild type (WT) and EIF4A1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-EIF4A1 antibody (Cat#AGI1357, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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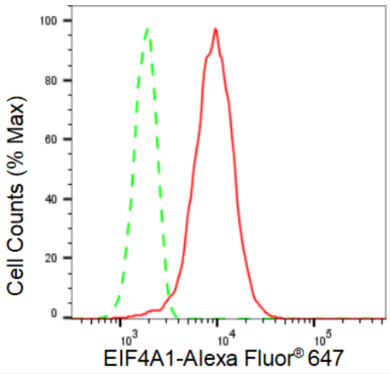

Flow cytometric analysis of EIF4A1 expression in HT-1080 cells using EIF4A1 antibody (Cat#AGI1357, 1:2,000). Green, isotype control; red, EIF4A1.