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eIF4A1 Rabbit mAb

Catalog # AP75389

Product Information

Application	WB, IP
Primary Accession	P60842
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	46154

Additional Information

Gene ID	1973
Other Names	EIF4A1
Dilution	WB~~1:1000-1:5000 IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

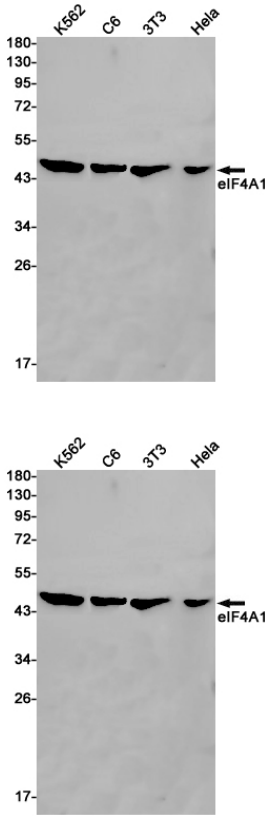
Protein Information

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

Background

Enables double-stranded RNA binding activity and translation initiation factor activity. Involved in cytoplasmic translational initiation and positive regulation of transcription by RNA polymerase II. Located in nuclear stress granule; perinuclear region of cytoplasm; and plasma membrane.

Images



Western blot analysis of eIF4A1 in K562, C6, 3T3, Hela lysates using eIF4A1 antibody.

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