

eIF4A1 Monoclonal Antibody(M8)

Catalog # AP63375

Product Information

Application	WB, IHC-P, IF
Primary Accession	<u>P60842</u>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	46154

Additional Information

Gene ID	1973
Other Names	Eukaryotic initiation factor 4A-I (eIF-4A-I) (eIF4A-I) (EC 3.6.4.13) (ATP-dependent RNA helicase eIF4A-1)
Dilution	WB~~WB: 1:1000-3000 IF: 1:100-200 IHC 1:50-300 IHC-P~~WB: 1:1000-3000 IF: 1:100-200 IHC 1:50-300 IF~~WB: 1:1000-3000 IF: 1:100-200 IHC 1:50-300
Format	PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.
Storage Conditions	-20°C

Protein Information

Background

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: <u>20156963</u>). 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: <u>20156963</u>).
Cellular Location	Cytoplasm, perinuclear region. Cell membrane. Cytoplasm, Stress granule. Note=Colocalizes with PKP1 in stress granules following arsenate or hydrogen peroxide treatment

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Images



Immunohistochemical analysis of paraffin-embedded Human-colon-cancer tissue. 1,eIF4A1 Monoclonal Antibody(M8) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,eIF4A1 Monoclonal Antibody(M8) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by

Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1,eIF4A1 Monoclonal Antibody(M8) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by

Immunofluorescence analysis of Mouse-spleen tissue. 1,eIF4A1 Monoclonal Antibody(M8)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI.

Western blot analysis of 1) 293T, 2) Hela, 3) HepG2, 4)

IF analysis of Hela with antibody (Left) and DAPI (Right)

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