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EIF4B Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1715a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P23588
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	1F5
Isotype	IgG2b
Calculated MW	69151
Description	The eukaryotic translation initiation factor 4B (eIF4B) plays a critical role in recruiting the 40S ribosomal subunit to the mRNA.It functions in close association with eIF4F and eIF4A. It binds near the 5'-terminal cap of mRNA in the presence of eIF4F and ATP. It promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both eIF4A and eIF4F
Immunogen	Purified recombinant fragment of human EIF4B expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	1975
Other Names	Eukaryotic translation initiation factor 4B, eIF-4B, EIF4B
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EIF4B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EIF4B
Function	Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in

presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F.

References

1. Mol Biol Cell. 2009 Jun;20(11):2673-83. 2. EMBO J. 2006 Jun 21;25(12):2781-91.

Images

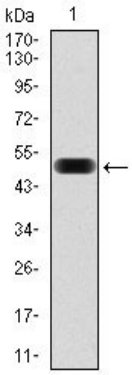


Figure 1: Western blot analysis using EIF4B mAb against human EIF4B (AA: 381-585) recombinant protein. (Expected MW is 48.3 kDa)

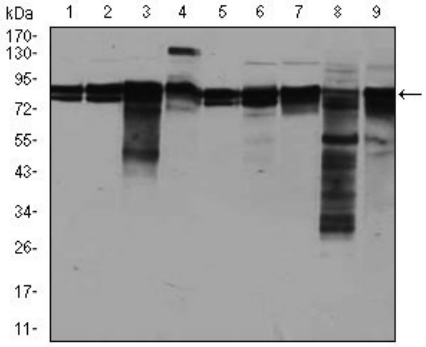


Figure 2: Western blot analysis using EIF4B mouse mAb against A549 (1), A431 (2), HepG2 (3), HEK293 (4), HeLa (5), Jurkat (6), K562 (7), NIH3T3 (8), and MCF-7 (9) cell lysate.

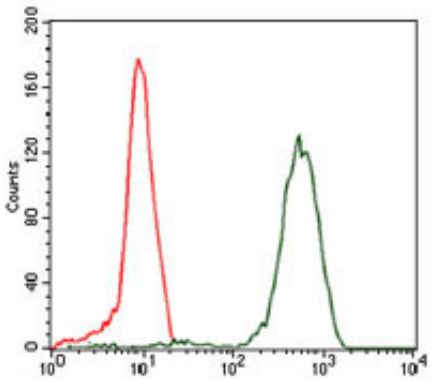


Figure 4: Flow cytometric analysis of HeLa cells using EIF4B mouse mAb (green) and negative control (red).

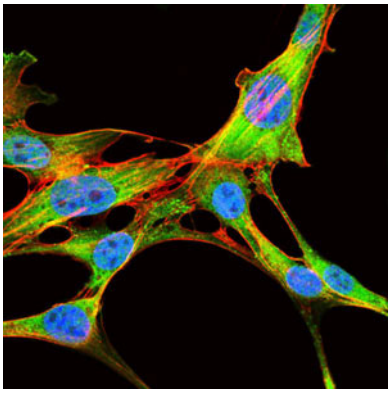
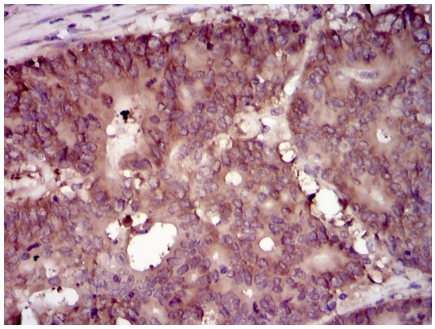


Figure 5 : Immunofluorescence analysis of NIH3T3 cells using EIF4B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Figure 5: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using EIF4B mouse mAb with DAB staining.



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