10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

EIF4B Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1715a

Specification

EIF4B Antibody - Product Information

Application	**E, WB, FC, IF, IHC**
Primary Accession	P23588
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**80kDa KDa**

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

EIF4B Antibody - Additional Information

Gene ID 1975

Other Names
Eukaryotic translation initiation factor 4B, eIF-4B, EIF4B

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
IF~~1/200 - 1/1000
IHC~~1/200 - 1/1000

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.

EIF4B Antibody - Protein Information

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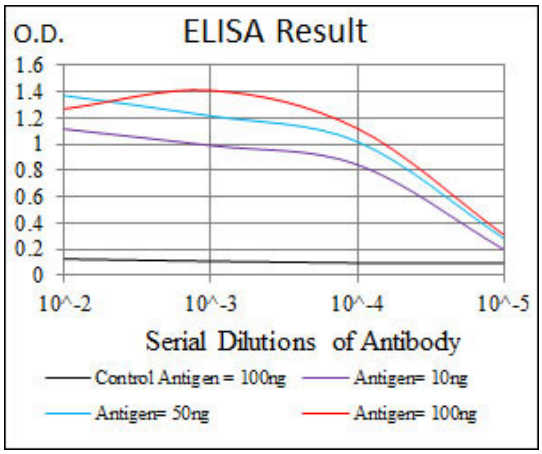
Name EIF4B

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.

EIF4B 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



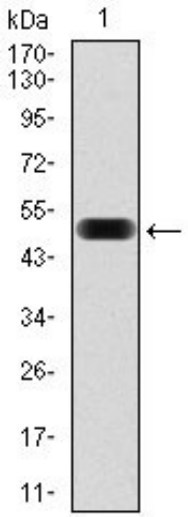


Figure 1: Western blot analysis using EIF4B mAb against human EIF4B (AA: 381-585) recombinant protein. (Expected MW is 48.3 kDa)

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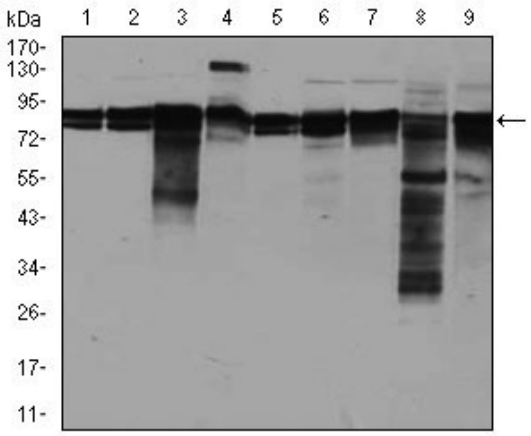


Figure 2: Western blot analysis using EIF4B mouse mAb against A549 (1), A431 (2), HepG2 (3), HEK293 (4), HeLa (5), Jurkat (6), K562 (7), NIH3T3 (8), and MCF-7 (9) cell lysate.

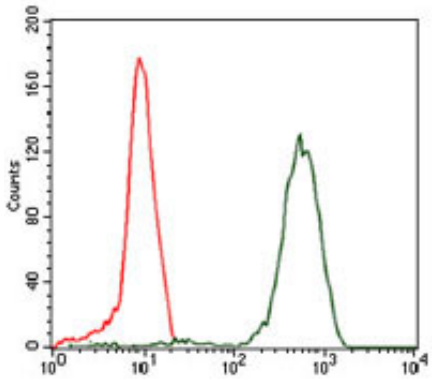


Figure 4: Flow cytometric analysis of HeLa cells using EIF4B mouse mAb (green) and negative control (red).

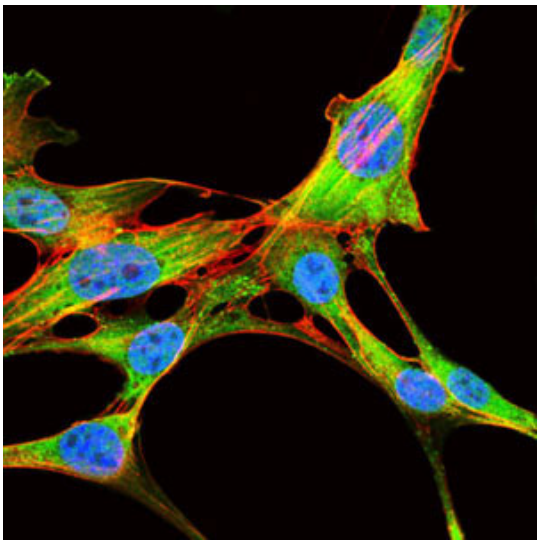


Figure 5 : Immunofluorescence analysis of NIH3T3 cells using EIF4B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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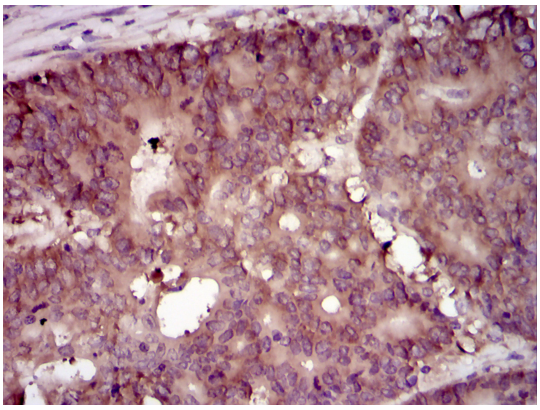


Figure 5: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using EIF4B mouse mAb with DAB staining.

EIF4B Antibody - References

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