

**EIF4B Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1715a****Specification****EIF4B Antibody - Product Information**

Application	E, WB, FC, IF, IHC
Primary Accession	<a href="#">P23588</a>
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. <br />

**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**

## 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 Cytometry](#)
- [Cell Culture](#)

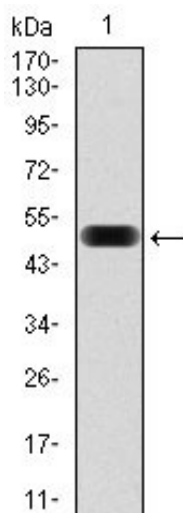
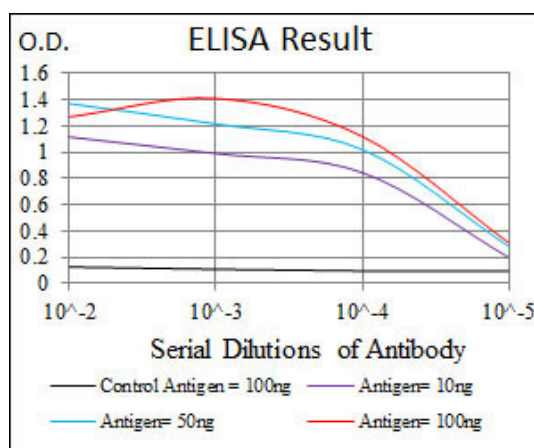


Figure 1: Western blot analysis using EIF4B mAb against human EIF4B (AA: 381-585) recombinant protein. (Expected MW is 48.3 kDa)

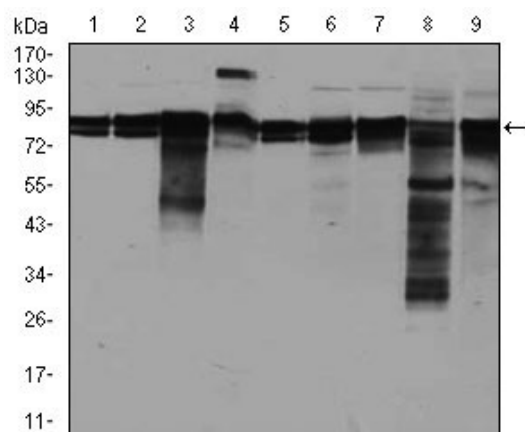


Figure 2: Western blot analysis using EIF4B mouse mAb against A549 (1), A431 (2), HepG2 (3), HEK293 (4), HeLa (5), Jurkat (6), K562 (7), NIH3T3 (8), and MCF-7 (9) cell lysate.

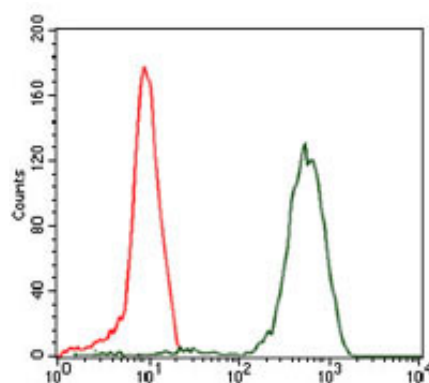


Figure 4: Flow cytometric analysis of HeLa cells using EIF4B mouse mAb (green) and negative control (red).

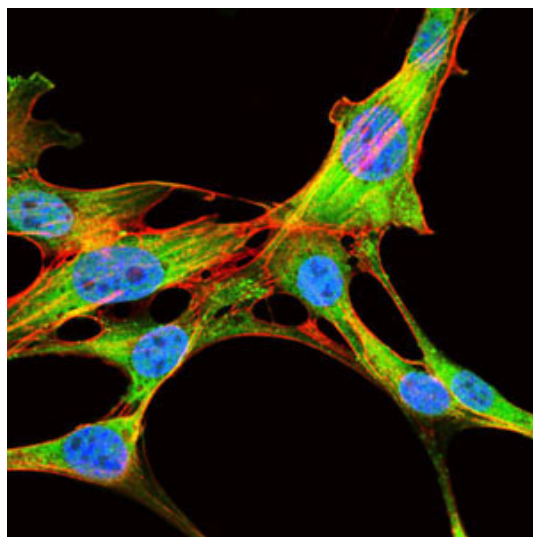


Figure 5 : Immunofluorescence analysis of NIH3T3 cells using EIF4B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

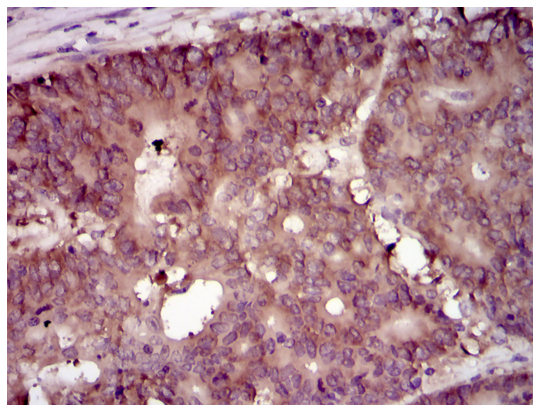


Figure 5: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using EIF4B mouse mAb with DAB staining.

#### **EIF4B Antibody - References**

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