

**EI2BG Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8608b**

**Specification**

**EI2BG Antibody - Product Information**

Application	<b>IF, WB, FC,E</b>
Primary Accession	<a href="#">O9NR50</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG1,k</b>
Calculated MW	<b>50240</b>

**EI2BG Antibody - Additional Information**

**Gene ID** 8891

**Other Names**

Translation initiation factor eIF-2B subunit gamma, eIF-2B GDP-GTP exchange factor subunit gamma, EIF2B3

**Target/Specificity**

This EI2BG antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 110-452 amino acids from human EI2BG.

**Dilution**

IF~~1:25  
WB~~1:2000  
FC~~1:25

**Format**

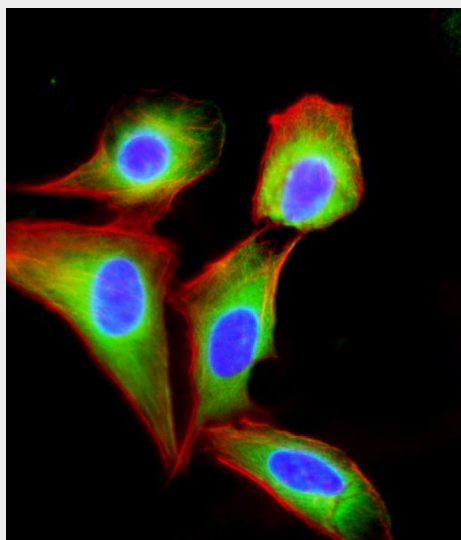
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EI2BG Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (human osteosarcoma cell line) cells labeling EI2BG with AM8608b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Mouse IgG (174309) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on U-2 OS cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).

## EI2BG Antibody - Protein Information

**Name** EIF2B3

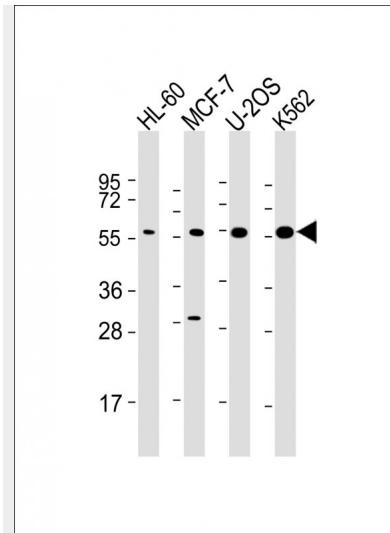
### Function

Catalyzes the exchange of eukaryotic initiation factor 2- bound GDP for GTP.

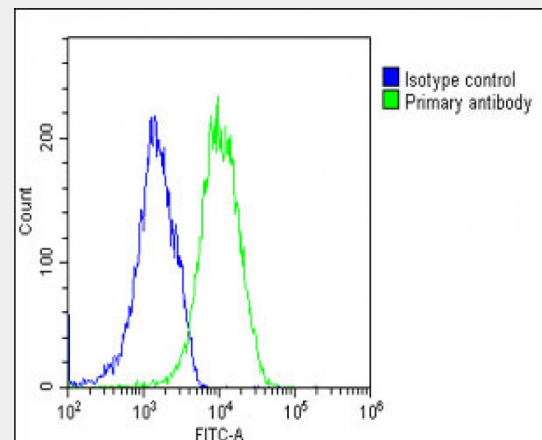
## EI2BG Antibody - Protocols

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](#)



All lanes : Anti-EI2BG Antibody at 1:2000 dilution Lane 1: HL-60 whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: U-2OS whole cell lysate Lane 4: K562 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing U-2 OS cells stained with AM8608b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8608b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (NH174309) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG2b (1  $\mu$ g/1x10<sup>6</sup> cells) used under the same conditions.

Acquisition of >10, 000 events was performed.

### **EI2BG Antibody - Background**

Catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP.

### **EI2BG Antibody - References**

Krueger M., et al. Proc. Natl. Acad. Sci. U.S.A. 97:8566-8571(2000).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Bechtel S., et al. BMC Genomics 8:399-399(2007).  
Gregory S.G., et al. Nature 441:315-321(2006).  
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.