

# Anti-EIF2B3 Antibody

Catalog # AP95810

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, FC, IF/IC     |
| Primary Accession | <a href="#">Q9NR50</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 50240                  |

## Additional Information

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|--------------------|--------------------------------------------------------------------------------------------------|
| Gene ID            | 8891                                                                                             |
| Other Names        | Translation initiation factor eIF-2B subunit gamma; eIF-2B GDP-GTP exchange factor subunit gamma |
| Target/Specificity | Recombinant fusion protein of human EIF2B3 expressed in E. Coli                                  |
| Dilution           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A                         |
| Format             | Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.                         |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                        |

## Protein Information

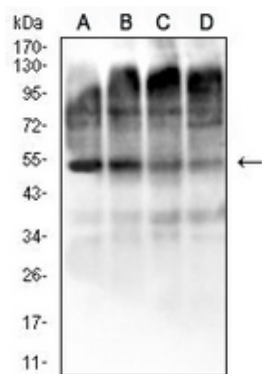
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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | EIF2B3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Function          | Acts as a component of the translation initiation factor 2B (eIF2B) complex, which catalyzes the exchange of GDP for GTP on the eukaryotic initiation factor 2 (eIF2) complex gamma subunit (PubMed: <a href="#">25858979</a> , PubMed: <a href="#">27023709</a> , PubMed: <a href="#">31048492</a> ). Its guanine nucleotide exchange factor activity is repressed when bound to eIF2 complex phosphorylated on the alpha subunit, thereby limiting the amount of methionyl-initiator methionine tRNA available to the ribosome and consequently global translation is repressed (PubMed: <a href="#">25858979</a> , PubMed: <a href="#">31048492</a> ). |
| Cellular Location | Cytoplasm, cytosol {ECO:0000250 UniProtKB:P56288}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

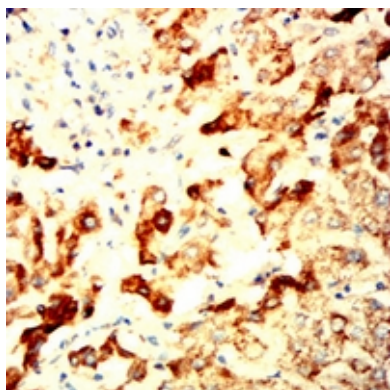
## Images

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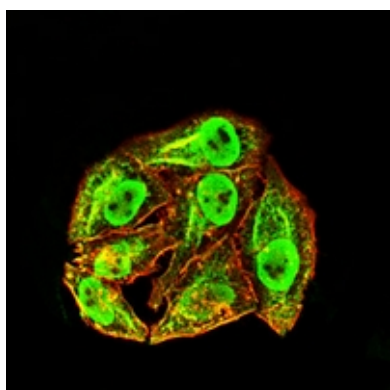
Western blot analysis of EIF2B3 expression in K562 (A),



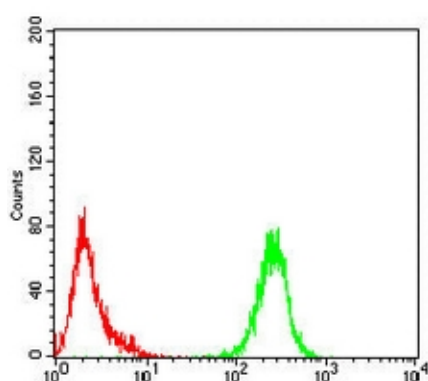
Hela (B), MCF7 (C), HL60 (D) whole cell lysates. (Predicted band size: 50 kD; Observed band size: 50 kD)



Immunohistochemical analysis of EIF2B3 staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of EIF2B3 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HL60 cells using Anti-EIF2B3 Antibody (green) and negative control (red).

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