

**EIF2B4 Antibody (Center K161)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11223c****Specification**

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**EIF2B4 Antibody (Center K161) - Product Information**

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Application       | IHC-P, WB,E                                           |
| Primary Accession | <a href="#">O9UI10</a>                                |
| Other Accession   | <a href="#">O3T058</a> , <a href="#">NP_001029288</a> |
| Reactivity        | Human, Mouse                                          |
| Predicted         | Bovine                                                |
| Host              | Rabbit                                                |
| Clonality         | Polyclonal                                            |
| Isotype           | Rabbit IgG                                            |
| Calculated MW     | 57557                                                 |
| Antigen Region    | 146-175                                               |

**EIF2B4 Antibody (Center K161) - Additional Information****Gene ID** 8890**Other Names**

Translation initiation factor eIF-2B subunit delta, eIF-2B GDP-GTP exchange factor subunit delta, EIF2B4, EIF2BD

**Target/Specificity**

This EIF2B4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 146-175 amino acids from the Central region of human EIF2B4.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

EIF2B4 Antibody (Center K161) is for research use only and not for use in diagnostic or therapeutic procedures.

**EIF2B4 Antibody (Center K161) - Protein Information**

**Name** EIF2B4

**Synonyms** EIF2BD

**Function** Acts as a component of the translation initiation factor 2B (eIF2B) complex, which catalyzes the exchange of GDP for GTP on eukaryotic initiation factor 2 (eIF2) gamma subunit (PubMed:[25858979](#), PubMed:[27023709](#), PubMed:[31048492](#)). 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:[25858979](#), PubMed:[31048492](#)).

**Cellular Location**

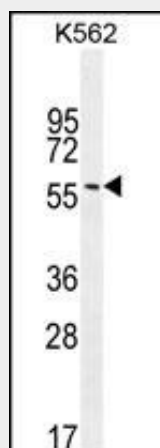
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q09924}

**EIF2B4 Antibody (Center K161) - Protocols**

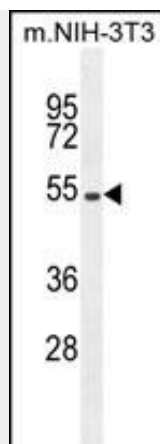
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

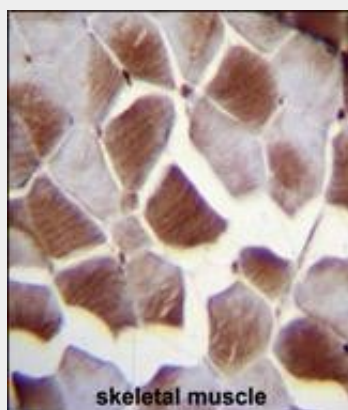
**EIF2B4 Antibody (Center K161) - Images**



EIF2B4 Antibody (Center K161) (Cat. #AP11223c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the EIF2B4 antibody detected the EIF2B4 protein (arrow).



EIF2B4 Antibody (Center K161) (Cat. #AP11223c) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the EIF2B4 antibody detected the EIF2B4 protein (arrow).



EIF2B4 Antibody (Center K161) (Cat. #AP11223c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of EIF2B4 Antibody (Center K161) for immunohistochemistry. Clinical relevance has not been evaluated.

### EIF2B4 Antibody (Center K161) - Background

Eukaryotic initiation factor 2B (EIF2B), which is necessary for protein synthesis, is a GTP exchange factor composed of five different subunits. The protein encoded by this gene is the fourth, or delta, subunit. Defects in this gene are a cause of leukoencephalopathy with vanishing white matter (VWM) and ovarioleukodystrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

### EIF2B4 Antibody (Center K161) - References

Naukkarinen, J., et al. PLoS Genet. 6 (6), E1000976 (2010) :  
Wu, Y., et al. J. Hum. Genet. 54(2):74-77(2009)  
Horzinski, L., et al. PLoS ONE 4 (12), E8318 (2009) :  
Pronk, J., et al. Mult. Scler. 14(8):1123-1126(2008)  
Wong, S.S., et al. J. Child Neurol. 23(6):710-714(2008)