

# EIF2B5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13090a

## Product Information

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|-------------------|--|
| Application       | WB, IHC-P, E   |
| Primary Accession | <a href="#">Q13144</a>                               |
| Other Accession   | <a href="#">Q64350</a> , <a href="#">NP_003898.2</a> |
| Reactivity        | Human, Mouse   |
| Predicted         | Rat  |
| Host              | Rabbit   |
| Clonality         | Polyclonal   |
| Isotype           | Rabbit IgG   |
| Clone Names       | RB18974  |
| Calculated MW     | 80380  |
| Antigen Region    | 36-65  |

## Additional Information

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|--------------------|--|
| Gene ID            | 8893   |
| Other Names        | Translation initiation factor eIF-2B subunit epsilon, eIF-2B GDP-GTP exchange factor subunit epsilon, EIF2B5, EIF2BE   |
| Target/Specificity | This EIF2B5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from the N-terminal region of human EIF2B5.       |
| Dilution           | WB~~1:1000 IHC-P~~1:100~500 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        | EIF2B5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|----------|--------|
| Name     | EIF2B5 |
| Synonyms | EIF2BE |

**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:P56287}

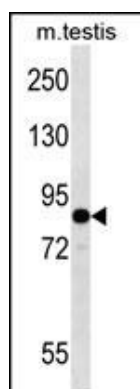
## Background

This gene encodes one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Mutations in this gene and the genes encoding other EIF2B subunits have been associated with leukoencephalopathy with vanishing white matter.

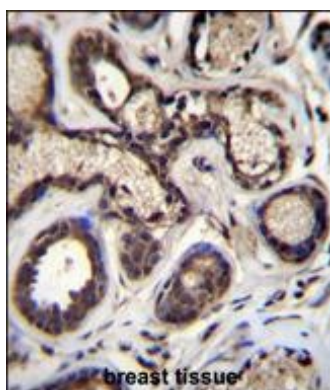
## References

van der Lei, H.D., et al. Neurology 75(17):1555-1559(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)  
Pronk, J., et al. Mult. Scler. 14(8):1123-1126(2008)  
Glover, E.I., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 295 (2), R604-R610 (2008) :

## Images

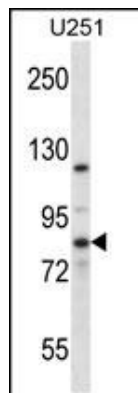


EIF2B5 Antibody (N-term) (Cat. #AP13090a) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the EIF2B5 antibody detected the EIF2B5 protein (arrow).



EIF2B5 Antibody (N-term) (Cat. #AP13090a) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of EIF2B5 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

EIF2B5 Antibody (N-term) (Cat. #AP13090a) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the EIF2B5 antibody detected the EIF2B5



protein (arrow).

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