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# EIF2B5 Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP13090a**

## Specification

### EIF2B5 Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P,E** |
| Primary Accession | Q13144 |
| Other Accession | Q64350, NP_003898.2 |
| Reactivity | **Human, Mouse** |
| Predicted | **Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **80380** |
| Antigen Region | **36-65** |

### EIF2B5 Antibody (N-term) - Additional Information

**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~~1:10~50

**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.

### EIF2B5 Antibody (N-term) - Protein Information

**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).

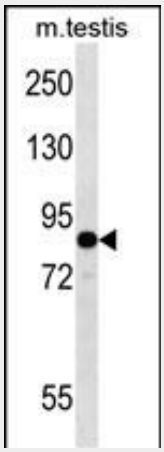
**Cellular Location**
Cytoplasm, cytosol {ECO:0000250|UniProtKB:P56287}

## EIF2B5 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## EIF2B5 Antibody (N-term) - 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).

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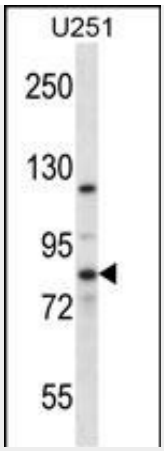
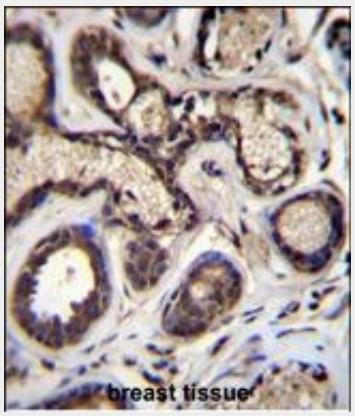



EIF2B5 Antibody (N-term) (Cat. #AP13090a) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the EIF2B5 antibody detected the EIF2B5 protein (arrow).




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) - 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.

**EIF2B5 Antibody (N-term) - References**

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Pronk, J., et al. Mult. Scler. 14(8):1123-1126(2008)
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