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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).

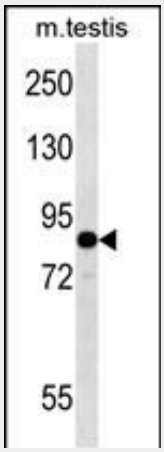
Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:P56287}

EIF2B5 Antibody (N-term) - Protocols

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

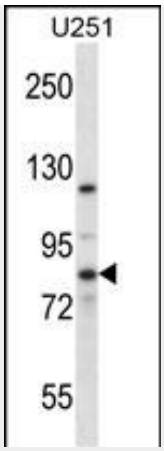
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EIF2B5 Antibody (N-term) - Images

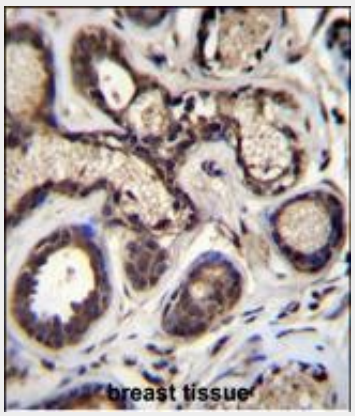


EIF2B5 Antibody (N-term) (Cat. #AP13090a) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the EIF2B5 antibody detected the EIF2B5 protein (arrow).

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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

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) :