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EIF2B5 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13090a

Specification

EIF2B5 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q13144

EIF2B5 Antibody (N-term) Blocking peptide - 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
The synthetic peptide sequence used to generate the antibody AP13090a was selected from the N-term region of EIF2B5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EIF2B5 Antibody (N-term) Blocking peptide - 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) Blocking peptide - Protocols

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

- Blocking Peptides

EIF2B5 Antibody (N-term) Blocking peptide - Images

EIF2B5 Antibody (N-term) Blocking peptide - Background

This gene encodes one of five subunits of eukaryotictranslation initiation factor 2B (EIF2B), a GTP exchange factor foreukaryotic initiation factor 2 and an essential regulator forprotein synthesis. Mutations in this gene and the genes encodingother EIF2B subunits have been associated with leukoencephalopathywith vanishing white matter.

EIF2B5 Antibody (N-term) Blocking peptide - 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) :