

EIF2B1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12415c**Specification**

EIF2B1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q14232](#)**EIF2B1 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 1967**Other Names**

Translation initiation factor eIF-2B subunit alpha, eIF-2B GDP-GTP exchange factor subunit alpha, EIF2B1, EIF2BA

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.

EIF2B1 Antibody (Center) Blocking peptide - Protein Information**Name** EIF2B1**Synonyms** EIF2BA**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:Q9USP0}

EIF2B1 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

EIF2B1 Antibody (Center) Blocking peptide - Images

EIF2B1 Antibody (Center) Blocking peptide - 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.

EIF2B1 Antibody (Center) Blocking peptide - References

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) Hiyama, T.B., et al. J. Mol. Biol. 392(4):937-951(2009) Pronk, J., et al. Mult. Scler. 14(8):1123-1126(2008) van der Knaap, M.S., et al. Neuropediatrics 38 (5), 264 (2007) :