

**EIF2B2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6781a****Specification**

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**EIF2B2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P49770](#)**EIF2B2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 8892**Other Names**

Translation initiation factor eIF-2B subunit beta, S20I15, S20III15, eIF-2B GDP-GTP exchange factor subunit beta, EIF2B2, EIF2BB

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6781a](/products/AP6781a) was selected from the N-term region of human EIF2B2. 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.

**EIF2B2 Antibody (N-term) Blocking Peptide - Protein Information****Name** EIF2B2**Synonyms** EIF2BB**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](http://www.uniprot.org/citations/25858979), PubMed:[27023709](http://www.uniprot.org/citations/27023709), PubMed:[31048492](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/25858979), PubMed:[25858979](http://www.uniprot.org/citations/25858979), PubMed:[25858979](http://www.uniprot.org/citations/25858979)).

href="http://www.uniprot.org/citations/31048492" target="\_blank">31048492</a>).

**Cellular Location**

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9UT76}

**EIF2B2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**EIF2B2 Antibody (N-term) Blocking Peptide - Images****EIF2B2 Antibody (N-term) Blocking Peptide - Background**

Eukaryotic initiation factor-2B (EIF2B) is a GTP exchange protein essential for protein synthesis. It consists of alpha (EIF2B1; MIM 606686), beta (EIF2B2), gamma (EIF2B3; MIM 606273), delta (EIF2B4; MIM 606687), and epsilon (EIF2B5; MIM 603945) subunits. EIF2B activates its EIF2 (see MIM 603907) substrate by exchanging EIF2-bound GDP for GTP.

**EIF2B2 Antibody (N-term) Blocking Peptide - References**

Pronk,J., et.al., Mult. Scler. 14 (8), 1123-1126 (2008)Llorens,F.,et.al., Biochem. J. 394 (PT 1), 227-236 (2006)