

EEF1A2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9403c**Specification**

EEF1A2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q05639](#)**EEF1A2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1917**Other Names**

Elongation factor 1-alpha 2, EF-1-alpha-2, Eukaryotic elongation factor 1 A-2, eEF1A-2, Statin-S1, EEF1A2, EEF1AL, STN

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.

EEF1A2 Antibody (Center) Blocking Peptide - Protein Information**Name** EEF1A2 {ECO:0000303|PubMed:10950927, ECO:0000312|HGNC:HGNC:3192}**Function**

Translation elongation factor that catalyzes the GTP- dependent binding of aminoacyl-tRNA (aa-tRNA) to the A-site of ribosomes during the elongation phase of protein synthesis. Base pairing between the mRNA codon and the aa-tRNA anticodon promotes GTP hydrolysis, releasing the aa-tRNA from EEF1A1 and allowing its accommodation into the ribosome (By similarity). The growing protein chain is subsequently transferred from the P-site peptidyl tRNA to the A-site aa-tRNA, extending it by one amino acid through ribosome- catalyzed peptide bond formation (By similarity).

Cellular Location

Endoplasmic reticulum membrane

Tissue Location

Brain, heart, and skeletal muscle.

EEF1A2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

EEF1A2 Antibody (Center) Blocking Peptide - Images

EEF1A2 Antibody (Center) Blocking Peptide - Background

EEF1A2 encodes an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This isoform (alpha 2) is expressed in brain, heart and skeletal muscle, and the other isoform (alpha 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas. This gene may be critical in the development of ovarian cancer.

EEF1A2 Antibody (Center) Blocking Peptide - References

Yanaka, N., et al. Biosci. Biotechnol. Biochem. 73(12):2809-2811(2009) Lee, M.H., et al. Ann. N. Y. Acad. Sci. 1171, 87-93 (2009) :Cao, H., et al. Biochem. Biophys. Res. Commun. 380(1):11-16(2009) Soares, D.C., et al. PLoS ONE 4 (7), E6315 (2009) :Jeganathan, S., et al. Mol. Cell. Biol. 28(14):4549-4561(2008)