

EIF5A2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14052b**Specification**

EIF5A2 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O9GZV4](#)**EIF5A2 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 56648**Other Names**

Eukaryotic translation initiation factor 5A-2, eIF-5A-2, eIF-5A2, Eukaryotic initiation factor 5A isoform 2, EIF5A2

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14052b was selected from the C-term region of EIF5A2. 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.

EIF5A2 Antibody (C-term) Blocking peptide - Protein Information**Name** EIF5A2**Function**

Translation factor that promotes translation elongation and termination, particularly upon ribosome stalling at specific amino acid sequence contexts (PubMed:14622290). Binds between the exit (E) and peptidyl (P) site of the ribosome and promotes rescue of stalled ribosome: specifically required for efficient translation of polyproline-containing peptides as well as other motifs that stall the ribosome. Acts as a ribosome quality control (RQC) cofactor by joining the RQC complex to facilitate peptidyl transfer during CAT tailing step (By similarity). Also involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P63241}. Nucleus {ECO:0000250|UniProtKB:P63241}.

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P63241}; Peripheral membrane protein {ECO:0000250|UniProtKB:P63241}; Cytoplasmic side {ECO:0000250|UniProtKB:P63241}. Note=Hypusine modification promotes the nuclear export and cytoplasmic localization and there was a dynamic shift in the localization from predominantly cytoplasmic to primarily nuclear under apoptotic inducing conditions {ECO:0000250|UniProtKB:P63241}

Tissue Location

Expressed in ovarian and colorectal cancer cell lines (at protein level). Highly expressed in testis. Overexpressed in some cancer cells.

EIF5A2 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

EIF5A2 Antibody (C-term) Blocking peptide - Images**EIF5A2 Antibody (C-term) Blocking peptide - Background**

mRNA-binding protein involved in translation elongation. Has an important function at the level of mRNA turnover, probably acting downstream of decapping. Involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity. Functions as a regulator of apoptosis. Mediates effects of polyamines on neuronal process extension and survival. May play an important role in brain development and function, and in skeletal muscle stem cell differentiation (By similarity).

EIF5A2 Antibody (C-term) Blocking peptide - References

Tang, D.J., et al. Hepatology 51(4):1255-1263(2010)Luo, J.H., et al. Cancer Sci. 100(5):896-902(2009)Chen, W., et al. Cancer Epidemiol. Biomarkers Prev. 18(2):400-408(2009)Yang, G.F., et al. Gynecol. Oncol. 112(2):314-318(2009)Xie, D., et al. Hum. Pathol. 39(1):80-86(2008)