Bioworld Technology CO., Ltd.

eIF5A2 (Y127) Peptide

Cat No.: BS9011P

Background

In mammalian cells, translation is controlled at the level of polypeptide chain initiation by eukaryotic initiation factors. The translation initiation factor 5 (eIF5) catalyzes the hydrolysis of GTP bound to the 40S ribosomal subunit, a function necessary for the subsequent joining of the 40S and 60S subunits to form the 80S initiation complex. eIF4E specifically binds to the mRNA cap to promote unwinding and exposure of the AUG-initiation codon. Overexpression of eIF4E can lead to cell transformation and tumorigenesis. An additional initiation factor, eIF2, is present as a heterotrimer composed of eIF2α, eIF2β and eIF2γ subunits. This heterotrimer forms a complex with GTP and tRNA which then binds to the 40S ribosomal subunit. After the formation of the 80S initiation complex, eIF2 is hydrolyzed and eIF2-GDP is released from the complex. eIF2-GDP is subsequently converted to eIF2-GTP, a reaction catalyzed by eIF2B, and is then available to catalyze another round of initiation.

Swiss-Prot

Q9GZV4

Applications

Blocking

Specificity

This peptide can be used with studies using BS9011 eIF5A2 (Y127) pAb.

Purification & Purity

Synthetic peptide eIF5A2 (Y127). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

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