

## EIF3S2 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP8547a

### **Specification**

## EIF3S2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession <u>Q13347</u>

# EIF3S2 Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID 8668** 

### **Other Names**

Eukaryotic translation initiation factor 3 subunit I  $\{ECO:0000255|HAMAP-Rule:MF\_03008\}$ , eIF3i  $\{ECO:0000255|HAMAP-Rule:MF\_03008\}$ , Eukaryotic translation initiation factor 3 subunit 2  $\{ECO:0000255|HAMAP-Rule:MF\_03008\}$ , TGF-beta receptor-interacting protein 1, TRIP-1, eIF-3-beta  $\{ECO:0000255|HAMAP-Rule:MF\_03008\}$ , eIF3 p36  $\{ECO:0000255|HAMAP-Rule:MF\_03008\}$ , EIF3I  $\{ECO:0000255|HAMAP-Rule:MF\_03008\}$ 

### Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/products/AP8547a>AP8547a</a> was selected from the N-term region of human EIF3S2. 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.

## EIF3S2 Antibody (N-term) Blocking Peptide - Protein Information

Name EIF3I {ECO:0000255|HAMAP-Rule:MF 03008}

### **Function**

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:<a

href="http://www.uniprot.org/citations/17581632" target="\_blank">17581632</a>, PubMed:<a href="http://www.uniprot.org/citations/25849773" target="\_blank">25849773</a>, PubMed:<a href="http://www.uniprot.org/citations/27462815" target="\_blank">27462815</a>). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl- tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG



recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:<a href="http://www.uniprot.org/citations/17581632" target="\_blank">17581632</a>). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:<a href="http://www.uniprot.org/citations/25849773" target="\_blank">25849773</a>).

## **Cellular Location**

Cytoplasm {ECO:0000255|HAMAP-Rule:MF\_03008}.

## EIF3S2 Antibody (N-term) Blocking Peptide - Protocols

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

### Blocking Peptides

EIF3S2 Antibody (N-term) Blocking Peptide - Images

## EIF3S2 Antibody (N-term) Blocking Peptide - Background

EIF3S2 is the largest of the EIFs. It consists of at least 10 nonidentical subunits in mammals. In S. cerevisiae the p39 subunit contains WD repeats; these are thought to mediate protein-protein interactions. The p39 protein appears to be essential for maintaining the integrity of the yeast EIF3 complex. The mammalian EIF3-p36 subunit is homologous to yeast p39.

### EIF3S2 Antibody (N-term) Blocking Peptide - References

Navarro, A., et.al., Am. J. Physiol. Lung Cell Mol. Physiol. 296 (6), L928-L935 (2009) Perard, J., et.al., FEBS Lett. 583 (1), 70-74 (2009)