10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EIF3S5 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2900a

Specification

EIF3S5 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O00303

EIF3S5 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8665

Other Names
Eukaryotic translation initiation factor 3 subunit F {ECO:0000255|HAMAP-Rule:MF_03005}, eIF3f {ECO:0000255|HAMAP-Rule:MF_03005}, Deubiquitinating enzyme eIF3f, Eukaryotic translation initiation factor 3 subunit 5 {ECO:0000255|HAMAP-Rule:MF_03005}, eIF-3-epsilon {ECO:0000255|HAMAP-Rule:MF_03005}, eIF3 p47 {ECO:0000255|HAMAP-Rule:MF_03005}, EIF3F {ECO:0000255|HAMAP-Rule:MF_03005}

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2900a was selected from the N-term region of human EIF3S5. 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.

EIF3S5 Antibody (N-term) Blocking Peptide - Protein Information

Name EIF3F {ECO:0000255|HAMAP-Rule:MF_03005}

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:17581632, PubMed:25849773, PubMed:27462815). 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:17581632). 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:25849773).

Cellular Location
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03005}.

EIF3S5 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

EIF3S5 Antibody (N-term) Blocking Peptide - Images

EIF3S5 Antibody (N-term) Blocking Peptide - Background

EIF3F is part of the EIF3 complex, which is composed of at least 12 subunits. It binds the 40S ribosome and promotes the binding of methionyl-tRNAi and mRNA. It can bind the COP9 signalosome and the 26S proteasome, possibly having regulatory functions in both protein translation and degradation. EIF3F also associates with the complex p170-EIF3.

EIF3S5 Antibody (N-term) Blocking Peptide - References

Zhou,M., et.al., Proc. Natl. Acad. Sci. U.S.A. 105 (47), 18139-18144 (2008)