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EIF4G1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7755c

Specification

EIF4G1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession	Q04637
Other Accession	NP_886553

EIF4G1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1981

Other Names
Eukaryotic translation initiation factor 4 gamma 1, eIF-4-gamma 1, eIF-4G 1, eIF-4G1, p220, EIF4G1, EIF4F, EIF4G, EIF4GI

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7755c was selected from the Center region of human EIF4G1. 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.

EIF4G1 Antibody (Center) Blocking Peptide - Protein Information

Name EIF4G1

Synonyms EIF4F, EIF4G, EIF4GI

Function
Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome (PubMed:29987188). Exists in two complexes, either with EIF1 or with EIF4E (mutually exclusive) (PubMed:29987188). Together with EIF1, is required for leaky scanning, in particular for avoiding cap-proximal start codon (PubMed:29987188). Together

with EIF4E, antagonizes the scanning promoted by EIF1-EIF4G1 and locates the start codon (through a TISU element) without scanning (PubMed:29987188). As a member of the eIF4F complex, required for endoplasmic reticulum stress-induced ATF4 mRNA translation (PubMed:29062139).

Cellular Location
Cytoplasm. Nucleus. Cytoplasm, Stress granule

EIF4G1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

EIF4G1 Antibody (Center) Blocking Peptide - Images

EIF4G1 Antibody (Center) Blocking Peptide - Background

EIF4G1 is a component of the protein complex EIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure, and recruitment of mRNA to the ribosome.

EIF4G1 Antibody (Center) Blocking Peptide - References

Ramirez-Valle,F., J. Cell Biol. 181 (2), 293-307 (2008)Suzuki,C., Proc. Natl. Acad. Sci. U.S.A. 105 (9), 3274-3279 (2008)Peffley,D.M., Arch. Biochem. Biophys. 465 (1), 266-273 (2007)