

EIF4E2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1955a**Specification****EIF4E2 Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [O60573](#)**EIF4E2 Antibody (N-term) Blocking Peptide -
Additional Information****Gene ID 9470****Other Names**

Eukaryotic translation initiation factor 4E
type 2, eIF-4E type 2, eIF4E type 2,
Eukaryotic translation initiation factor 4E
homologous protein, Eukaryotic translation
initiation factor 4E-like 3, eIF4E-like protein
4E-LP, mRNA cap-binding protein 4EHP,
mRNA cap-binding protein type 3, EIF4E2,
EIF4EL3

Target/Specificity

The synthetic peptide sequence used to
generate the antibody [AP1955a](/product/products/AP1955a) was
selected from the N-term region of human
EIF4E2. 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.

**EIF4E2 Antibody (N-term) Blocking
Peptide - Background**

EIF4E2 is expressed exclusively in the
cytoplasm. This protein recognizes and binds
the 7 methylguanosine containing mRNA cap
during an early step in the initiation of protein
synthesis and facilitates ribosome binding by
inducing the unwinding of the mRNAs
secondary structures.

**EIF4E2 Antibody (N-term) Blocking
Peptide - References**

Rom, E., et al., J. Biol. Chem.
273(21):13104-13109 (1998). Mao, M., et al.,
Proc. Natl. Acad. Sci. U.S.A. 95(14):8175-8180
(1998). Tee, A.R., et al., FEBS Lett. 564 (1-2),
58-62 (2004) (): ().

EIF4E2 Antibody (N-term) Blocking Peptide - Protein Information**Name** EIF4E2

{ECO:0000303|PubMed:15153109,
ECO:0000312|HGNC:HGNC:3293}

Function

Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation (PubMed:17368478, PubMed:25624349, PubMed:9582349). Acts as a repressor of translation initiation (PubMed:22751931). In contrast to EIF4E, it is unable to bind eIF4G (EIF4G1, EIF4G2 or EIF4G3), suggesting that it acts by competing with EIF4E and block assembly of eIF4F at the cap (By similarity). In P-bodies, component of a complex that promotes miRNA-mediated translational repression (PubMed:28487484).

Cellular Location

Cytoplasm. Cytoplasm, P-body

EIF4E2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)