

ETF1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6844c**Specification**

ETF1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P62495](#)**ETF1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2107**Other Names**

Eukaryotic peptide chain release factor subunit 1, Eukaryotic release factor 1, eRF1, Protein Cl1, TB3-1, ETF1, ERF1, RF1, SUP45L1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6844c](/products/AP6844c) was selected from the Center region of human ETF1. 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.

ETF1 Antibody (Center) Blocking Peptide - Protein Information**Name** ETF1**Synonyms** ERF1, RF1, SUP45L1**Function**

Component of the eRF1-eRF3-GTP ternary complex, a ternary complex that mediates translation termination in response to the termination codons (PubMed: [7990965](http://www.uniprot.org/citations/7990965), PubMed: [10676813](http://www.uniprot.org/citations/10676813), PubMed: [16777602](http://www.uniprot.org/citations/16777602), PubMed: [24486019](http://www.uniprot.org/citations/24486019), PubMed: [26245381](http://www.uniprot.org/citations/26245381), PubMed: [27863242](http://www.uniprot.org/citations/27863242), PubMed: [36638793](http://www.uniprot.org/citations/36638793)). The

eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site (PubMed:26245381, PubMed:27863242, PubMed:36638793). ETF1/ERF1 is responsible for stop codon recognition and inducing hydrolysis of peptidyl-tRNA (PubMed:26245381, PubMed:27863242, PubMed:36638793). Following GTP hydrolysis, eRF3 (GSPT1/ERF3A or GSPT2/ERF3B) dissociates, permitting ETF1/eRF1 to accommodate fully in the A-site and mediate hydrolysis of peptidyl-tRNA (PubMed:10676813, PubMed:16777602, PubMed:26245381, PubMed:27863242). Component of the transient SURF complex which recruits UPF1 to stalled ribosomes in the context of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons (PubMed:19417104). Required for SHFL-mediated translation termination which inhibits programmed ribosomal frameshifting (-1PRF) of mRNA from viruses and cellular genes (PubMed:30682371).

Cellular Location

Cytoplasm.

ETF1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ETF1 Antibody (Center) Blocking Peptide - Images

ETF1 Antibody (Center) Blocking Peptide - Background

ETF1 directs the termination of nascent peptide synthesis (translation) in response to the termination codons UAA, UAG and UGA.

ETF1 Antibody (Center) Blocking Peptide - References

Ander,M.et.al., Biochemistry 48 (15), 3483-3489 (2009)