

eRF1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55058**Specification**

eRF1 Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	P62495
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49031

eRF1 Polyclonal Antibody - 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

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

eRF1 Polyclonal Antibody - 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:[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), PubMed:[7990965](http://www.uniprot.org/citations/7990965)). The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site (PubMed:[26245381](http://www.uniprot.org/citations/26245381), PubMed:[27863242](http://www.uniprot.org/citations/27863242), PubMed:[36638793](http://www.uniprot.org/citations/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.

eRF1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

eRF1 Polyclonal Antibody - Images