

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

## Specification

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### eRF1 Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">P62495</a>
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:<a href="http://www.uniprot.org/citations/26245381" target="\_blank">26245381</a>, PubMed:<a href="http://www.uniprot.org/citations/27863242" target="\_blank">27863242</a>, PubMed:<a href="http://www.uniprot.org/citations/36638793" target="\_blank">36638793</a>). 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:<a href="http://www.uniprot.org/citations/10676813" target="\_blank">10676813</a>, PubMed:<a href="http://www.uniprot.org/citations/16777602" target="\_blank">16777602</a>, PubMed:<a href="http://www.uniprot.org/citations/26245381" target="\_blank">26245381</a>, PubMed:<a href="http://www.uniprot.org/citations/27863242" target="\_blank">27863242</a>). 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:<a href="http://www.uniprot.org/citations/19417104" target="\_blank">19417104</a>). Required for SHFL-mediated translation termination which inhibits programmed ribosomal frameshifting (-1PRF) of mRNA from viruses and cellular genes (PubMed:<a href="http://www.uniprot.org/citations/30682371" target="\_blank">30682371</a>).

### **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**