

Elongation Factor 1A1 Rabbit mAb
Catalog # AP76475**Specification****Elongation Factor 1A1 Rabbit mAb - Product Information**

| | |
|-------------------|------------------------|
| Application | WB, IHC, IF |
| Primary Accession | P68104 |
| Reactivity | Human, Rat |
| Host | Rabbit |
| Clonality | Monoclonal Antibody |
| Calculated MW | 50141 |

Elongation Factor 1A1 Rabbit mAb - Additional Information

Gene ID 1915

Other Names

EEF1A1

Dilution

WB~~1/500-1/1000

IHC~~1/50-1/100

IF~~1/50-1/200

Format

Liquid

Elongation Factor 1A1 Rabbit mAb - Protein Information

Name EEF1A1

Synonyms EEF1A, EF1A, LENG7

Function

Translation elongation factor that catalyzes the GTP- dependent binding of aminoacyl-tRNA (aa-tRNA) to the A-site of ribosomes during the elongation phase of protein synthesis (PubMed: [26593721](http://www.uniprot.org/citations/26593721), PubMed: [26651998](http://www.uniprot.org/citations/26651998), PubMed: [36123449](http://www.uniprot.org/citations/36123449), PubMed: [36264623](http://www.uniprot.org/citations/36264623), PubMed: [36638793](http://www.uniprot.org/citations/36638793)). Base pairing between the mRNA codon and the aa-tRNA anticodon promotes GTP hydrolysis, releasing the aa-tRNA from EEF1A1 and allowing its accommodation into the ribosome (PubMed: [26593721](http://www.uniprot.org/citations/26593721), PubMed: [26651998](http://www.uniprot.org/citations/26651998), PubMed: [36123449](http://www.uniprot.org/citations/36123449), PubMed: [36264623](http://www.uniprot.org/citations/36264623), PubMed: [36638793](http://www.uniprot.org/citations/36638793)). The growing

protein chain is subsequently transferred from the P-site peptidyl tRNA to the A-site aa-tRNA, extending it by one amino acid through ribosome-catalyzed peptide bond formation (PubMed:26593721, PubMed:26651998, PubMed:36123449, PubMed:36264623). Also plays a role in the positive regulation of IFNG transcription in T-helper 1 cells as part of an IFNG promoter-binding complex with TXK and PARP1 (PubMed:17177976).

Cellular Location

Cytoplasm. Nucleus. Nucleus, nucleolus. Cell membrane. Note=Colocalizes with DLC1 at actin-rich regions in the cell periphery (PubMed:19158340). Translocates together with ZPR1 from the cytoplasm to the nucleus and nucleolus after treatment with mitogens (PubMed:8650580). Localization at the cell membrane depends on EEF1A1 phosphorylation status and the presence of PPP1R16B (PubMed:26497934).

Elongation Factor 1A1 Rabbit mAb - 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](#)

Elongation Factor 1A1 Rabbit mAb - Images



