

**eEF1A1 Antibody**  
Rabbit mAb  
Catalog # AP92033

## Specification

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### eEF1A1 Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">P68104</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
EEF1A1; CCS-3; CCS3; EEF-1; EEF1A; EF-Tu; EF1A; GRAF-1EF; LENG7; PTI1;eEF1A-1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	50141 Da

### eEF1A1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human eEF1A1
Description	This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### eEF1A1 Antibody - 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:<a href="http://www.uniprot.org/citations/26593721" target="\_blank">26593721</a>, PubMed:<a href="http://www.uniprot.org/citations/26651998" target="\_blank">26651998</a>, PubMed:<a href="http://www.uniprot.org/citations/36123449" target="\_blank">36123449</a>, PubMed:<a href="http://www.uniprot.org/citations/36264623" target="\_blank">36264623</a>, PubMed:<a href="http://www.uniprot.org/citations/36638793" target="\_blank">36638793</a>). 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:<a href="http://www.uniprot.org/citations/26593721" target="\_blank">26593721</a>, PubMed:<a href="http://www.uniprot.org/citations/26651998" target="\_blank">26651998</a>, PubMed:<a href="http://www.uniprot.org/citations/36123449" target="\_blank">36123449</a>, PubMed:<a href="http://www.uniprot.org/citations/36264623" target="\_blank">36264623</a>, PubMed:<a href="http://www.uniprot.org/citations/36638793" target="\_blank">36638793</a>).

<http://www.uniprot.org/citations/36123449> target="\_blank">36123449</a>, PubMed:<a href="http://www.uniprot.org/citations/36264623" target="\_blank">36264623</a>, PubMed:<a href="http://www.uniprot.org/citations/36638793" target="\_blank">36638793</a>). 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:<a href="http://www.uniprot.org/citations/26593721" target="\_blank">26593721</a>, PubMed:<a href="http://www.uniprot.org/citations/26651998" target="\_blank">26651998</a>, PubMed:<a href="http://www.uniprot.org/citations/36123449" target="\_blank">36123449</a>, PubMed:<a href="http://www.uniprot.org/citations/36264623" target="\_blank">36264623</a>). 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:<a href="http://www.uniprot.org/citations/17177976" target="\_blank">17177976</a>).

### Cellular Location

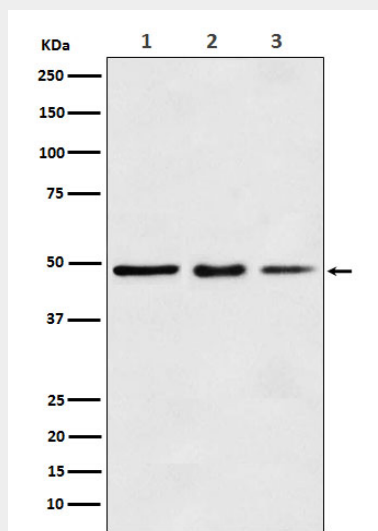
Cytoplasm. Nucleus. Nucleus, nucleolus. Cell membrane. Note=Colocalizes with DLC1 at actin-rich regions in the cell periphery (PubMed:19158340). Translocates together with ZPR1 from the cytoplasm to the nucleus and nucleolus after treatment with mitogens (PubMed:8650580). Localization at the cell membrane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

### eEF1A1 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](#)

### eEF1A1 Antibody - Images



Western blot analysis of eEF1A1 expression in (1) MCF7 cell lysate; (2) Mouse kidney lysate; (2) Rat spleen lysate.