

**Anti-eEF1A1 Rabbit Monoclonal Antibody**  
Catalog # ABO15493**Specification****Anti-eEF1A1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">P68104</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-eEF1A1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-eEF1A1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 1915

**Other Names**

Elongation factor 1-alpha 1, EF-1-alpha-1, 3.6.5.-, Elongation factor Tu, EF-Tu, Eukaryotic elongation factor 1 A-1, eEF1A-1, Leukocyte receptor cluster member 7, EEF1A1, EEF1A, EF1A, LENG7

**Application Details**

WB 1:1000-1:5000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human eEF1A1

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-eEF1A1 Rabbit Monoclonal 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>). 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

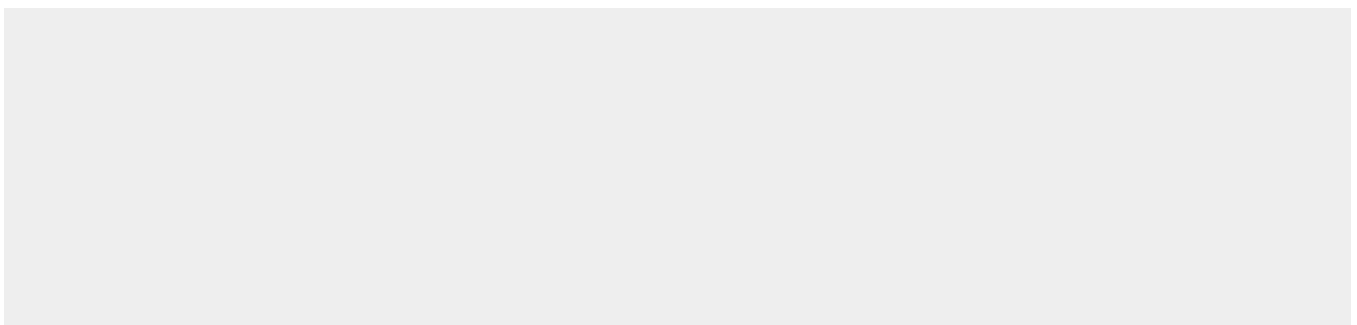
Cytoplasm. Nucleus. Nucleus, nucleolus. Cell membrane. Note=Colocalizes with DLC1 at actin-rich regions in the cell periphery (PubMed:19158340). Translocates together with ZPR1 from the cytoplasm to the nucleus and nucleolus after treatment with mitogens (PubMed:8650580). Localization at the cell membrane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

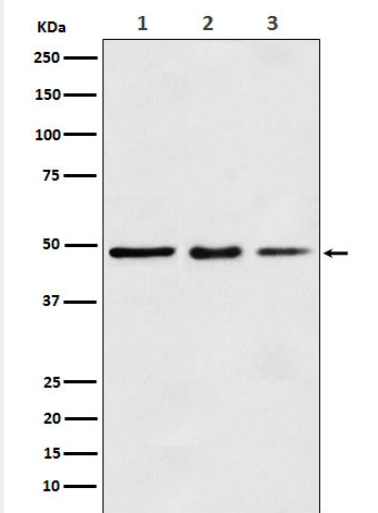
## Anti-eEF1A1 Rabbit Monoclonal Antibody - Protocols

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](#)

## Anti-eEF1A1 Rabbit Monoclonal Antibody - Images





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