

Anti-EEF1A Antibody
Catalog # ABV11938**Specification**

Anti-EEF1A Antibody - Product Information

Application	WB
Primary Accession	P68104
Reactivity	Human, Mouse, Rat
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	50141

Anti-EEF1A Antibody - Additional Information**Gene ID** 1915

Positive Control	WB: H9C2 PMA-treated (A) whole cell lysates
Application & Usage	WB; 1:500 - 1:2000

Other Names

Ack146, EEF1A1, EEF1A, EF1A, LENG7, Elongation factor 1-alpha 1, EF-1-alpha-1, Elongation factor Tu, EF-Tu; Eukaryotic elongation factor 1 A-1, eEF1A-1, Leukocyte receptor cluster member 7, EEF1A2, EEF1AL, STN, Elongation factor 1-alpha 2, EF-1-alpha-2, Eukaryotic elongation factor 1 A-2, eEF1A-2, Statin-S1, EEF1A1P5, EEF1AL3, Putative elongation factor 1-alpha-like 3, EF-1-alpha-like 3, Eukaryotic elongation factor 1 A-like 3, eEF1A-like 3, Eukaryotic translation elongation factor 1 alpha-1 pseudogene 5

Target/Specificity

EEF1A1

Antibody Form

Liquid

Appearance

Colorless liquid

Handling

The antibody solution should be gently mixed before use

Reconstitution & Storage

-20°C

Background Descriptions**Precautions**

Anti-EEF1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-EEF1A 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:26593721, PubMed:26651998, PubMed:36123449, PubMed:36264623, PubMed: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, PubMed:26651998, PubMed:36123449, PubMed:36264623, PubMed: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

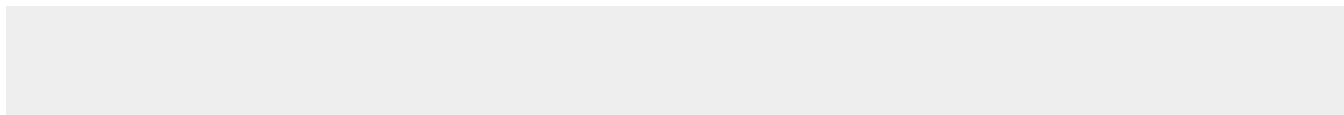
Cytoplasm. Nucleus. Nucleus, nucleolus. Cell membrane. Note=Colocalizes with DLC1 at actin-rich regions in the cell periphery (PubMed:19158340). Translocates together with ZPR1 from the cytoplasm to the nucleus and nucleolus after treatment with mitogens (PubMed:8650580). Localization at the cell membrane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

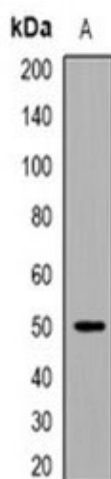
Anti-EEF1A Antibody - Protocols

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-EEF1A Antibody - Images





WB analysis of EEF1A (Ack146) expression in H9C2 PMA_ treated (A) whole cell lysates