

EF-1 α 1/2 Polyclonal Antibody

Catalog # AP73677

Product Information

Application	WB, E
Primary Accession	P68104 , Q05639 , Q5VTE0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50141

Additional Information

Gene ID	1915
Other Names	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
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

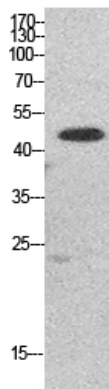
Name	EEF1A1
Synonyms	EEF1A, EF1A, LENG7
Function	Translation elongation factor that catalyzes the GTP- dependent binding of aminoacyl-tRNA (aa-tRNA) to the A-site of ribosomes during the elongation phase of protein synthesis (PubMed: 26593721 , PubMed: 26651998 , PubMed: 36123449 , PubMed: 36264623 , 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](#)). Also plays a role in cytoskeleton organization by promoting actin bundling (By similarity).

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).

Images



Western Blot analysis of HepG2 cells using EF-1 α 1/2 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.