

# Elongation Factor 1A1 Rabbit mAb

Catalog # AP75377

## Product Information

Application	WB, IHC-P, IP
Primary Accession	<a href="#">P68104</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	50141

## Additional Information

Gene ID	1915
Other Names	EEF1A1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

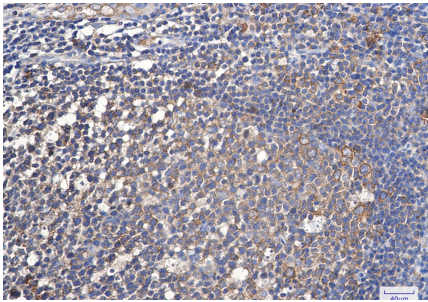
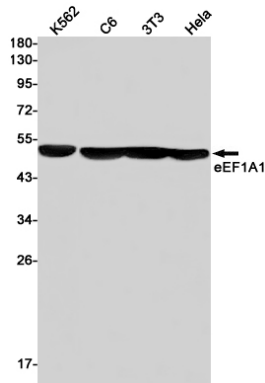
## Protein Information

Name	EEF1A1
Synonyms	EEF1A, EF1A, LENG7
Function	<p>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="#">26593721</a>, PubMed:<a href="#">26651998</a>, PubMed:<a href="#">36123449</a>, PubMed:<a href="#">36264623</a>, PubMed:<a href="#">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="#">26593721</a>, PubMed:<a href="#">26651998</a>, PubMed:<a href="#">36123449</a>, PubMed:<a href="#">36264623</a>, PubMed:<a href="#">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="#">26593721</a>, PubMed:<a href="#">26651998</a>, PubMed:<a href="#">36123449</a>, PubMed:<a href="#">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="#">17177976</a>). Also plays a role in cytoskeleton organization by promoting actin bundling (By similarity).</p>
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

---



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