

For Research Use Only

# EEF1A2 Monoclonal antibody

Catalog Number: 66806-1-Ig



## Basic Information

<b>Catalog Number:</b> 66806-1-Ig	<b>GenBank Accession Number:</b> BC000432	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1800 µg/ml	<b>GeneID (NCBI):</b> 1917	<b>CloneNo.:</b> 4F3F4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q05639	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Isotype:</b> IgG1	<b>Full Name:</b> eukaryotic translation elongation factor 1 alpha 2	
<b>Immunogen Catalog Number:</b> AG6875	<b>Calculated MW:</b> 50 kDa	
	<b>Observed MW:</b> 48-50 kDa	

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

Human, mouse, rat, pig

### Positive Controls:

WB: HeLa cells, pig brain tissue, rat brain tissue, mouse brain tissue, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

## Background Information

eEF1A2 is one of two isoforms (eEF1A1 and eEF1A2) of eukaryotic elongation factor 1 alpha (eEF1A or eEF1 $\alpha$ ). The two isoforms share more than 90% sequence identity and have the similar function that being a protein translation factor involved in protein synthesis. Addition, eEF1A2 plays an important role in cell cycle regulation, heat-shock response, aging, posttranslational modifications, and signal transduction (PMID: 25905039). eEF1A2 is expressed in heart, brain tissue, diaphragm and skeletal muscle while eEF1A1 is expressed ubiquitously (PMID:14588074). And the eEF1A2 protein stimulates the phospholipid signaling and activates the Akt-dependent cell migration and actin remodeling that ultimately favors tumorigenesis. It is reported that eEF1A2 was related with kinds of cancers such as ovarian cancer, prostate cancer, pancreatic cancer, breast cancer and lung cancer (PMID:14588074; 24853801; 25744894; 25905039). An 48 kDa band has also been reported (PMID: 24285179).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

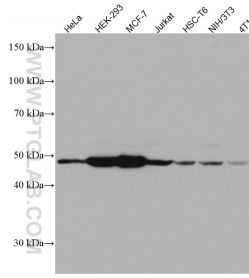
T: 4006900926

E: Proteintech-CN@ptglab.com

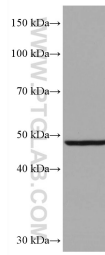
W: ptgcn.com

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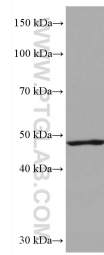
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66806-1-Ig (EEF1A2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



mouse brain tissue were subjected to SDS PAGE followed by western blot with 66806-1-Ig (EEF1A2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



rat brain tissue were subjected to SDS PAGE followed by western blot with 66806-1-Ig (EEF1A2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.