For Research Use Only

EEF1A2 Monoclonal antibody

Catalog Number:66806-1-Ig

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Basic Information

Catalog Number:
66806-1-Ig

Size:
150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6875

GenBank Accession Number:
BC000432

GeneID (NCBI):
1917

UNIPROT ID:
Q05639

Full Name:
eukaryotic translation elongation factor 1 alpha 2

Calculated MW:
50 kDa

Observed MW:
48-50 kDa

Purification Method:
Protein G purification

CloneNo.:
4F3F4

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:500-1:2000

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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

IHC : rat brain tissue,

Background Information

eEF1A2 is one of two isoforms (eEF1A1 and eEF1A2) of eukaryotic elongation factor 1 alpha (eEF1A or eEF1α). 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).

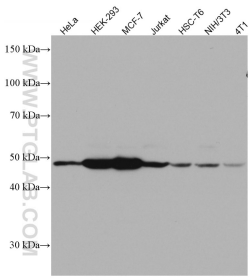
Storage

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

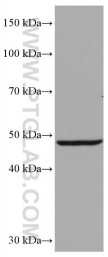
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

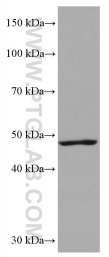
Selected Validation Data



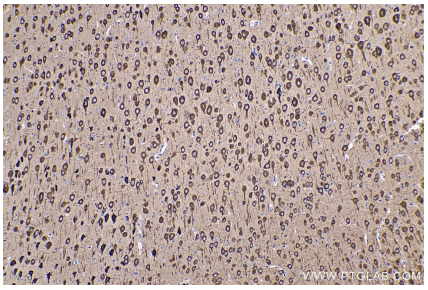
Various lysates were subjected to SDS PAGE followed by western blot with 66806-1-Ig (EEF1A2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



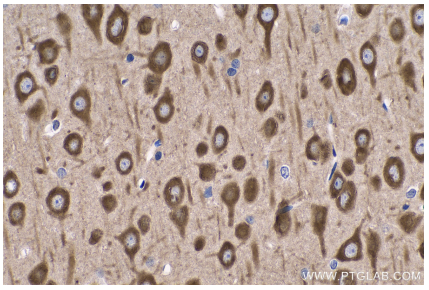
mouse brain tissue were subjected to SDS PAGE followed by western blot with 66806-1-Ig (EEF1A2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 66806-1-Ig (EEF1A2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 66806-1-Ig (EEF1A2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).