

For Research Use Only

# EEF1E1 Polyclonal antibody

Catalog Number: 10805-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

10805-1-AP

**Size:**

350 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1092

**GenBank Accession Number:**

BC005291

**GeneID (NCBI):**

9521

**UNIPROT ID:**

O43324

**Full Name:**

eukaryotic translation elongation factor 1 epsilon 1

**Calculated MW:**

20 kDa

**Observed MW:**

20 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human

**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:** HEK-293 cells, HeLa cells, human testis tissue, Jurkat cells, HepG2 cells, SKOV-3 cells, mouse testis tissue, rat testis tissue

**IHC:** human breast cancer tissue,

## Background Information

During the translation processes, aminoacyl-tRNA synthetases (ARSs) ligate specific amino acids to tRNAs. Together with non-enzymatic proteins called ARS-interacting multifunctional proteins (AIMPs), the ARSs form a macromolecular complex [PMID:15286174]. This complex has an essential role in protein synthesis, but also in other biological processes including angiogenesis, apoptosis, and inflammation. [PMID:21789020] AIMP3 is not only associated with the multi-tRNA synthetase complex via its specific interaction with methionyl-tRNA synthetase, but also works as a tumor suppressor by interacting with ATM, the upstream kinase of p53 [PMID:18343821].

## Notable Publications

Author	Pubmed ID	Journal	Application
Krishnendu Khan	36037331	Proc Natl Acad Sci U S A	WB,IF
J J David Ho	34644561	Cell Rep	WB
Litng Ding	33538115	J Cell Mol Med	WB

## 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:

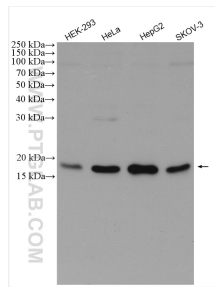
T: 4006900926

E: Proteintech-CN@ptglab.com

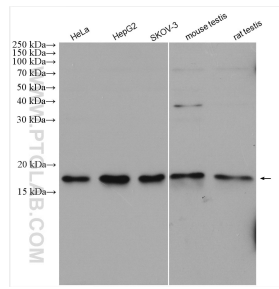
W: ptgcn.com

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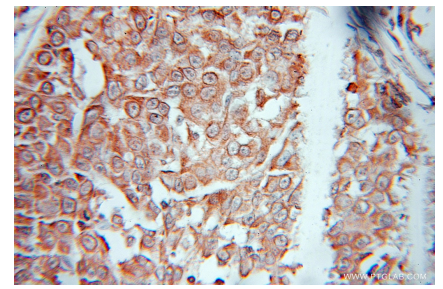
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10805-1-AP (EEF1E1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10805-1-AP (EEF1E1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 10805-1-AP (EEF1E1 antibody) at dilution of 1:10 (under 10x lens).