

EEF1E1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5638**Specification**

EEF1E1 Antibody - Product Information

Application	IF, FC, WB,E
Primary Accession	O43324
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=20,16;M=20 KDa
Isotype	IgG2b, κ
Antigen Source	HUMAN

EEF1E1 Antibody - Additional Information**Gene ID** 9521**Antigen Region**
1-112**Other Names**

Eukaryotic translation elongation factor 1 epsilon-1, Aminoacyl tRNA synthetase complex-interacting multifunctional protein 3, Elongation factor p18, Multisynthase complex auxiliary component p18, EEF1E1, AIMP3, P18

Dilution

IF~~1:25
FC~~1:25
WB~~1:2000

Target/Specificity

This EEF1E1 antibody is generated from a mouse immunized with a recombinant protein of human EEF1E1.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

EEF1E1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

EEF1E1 Antibody - Protein Information**Name** EEF1E1**Synonyms** AIMP3, P18 {ECO:0000303|PubMed:15680327}

Function

Positive modulator of ATM response to DNA damage.

Cellular Location

Cytoplasm. Cytoplasm, cytosol. Nucleus. Note=Cytoplasmic under growth arrest conditions. Translocated into the nucleus when growth resumes (S phase) and following DNA damage

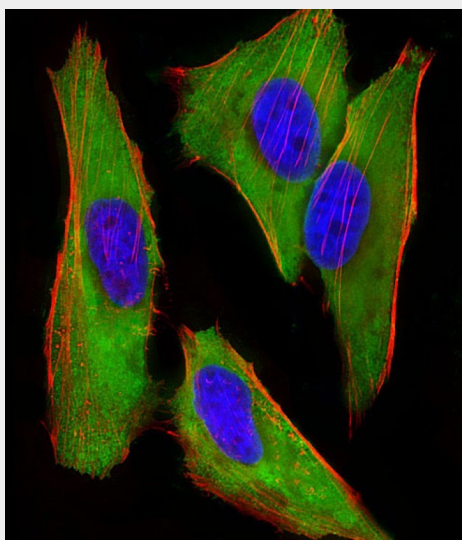
Tissue Location

Down-regulated in various cancer tissues.

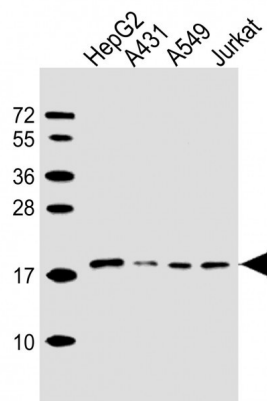
EEF1E1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

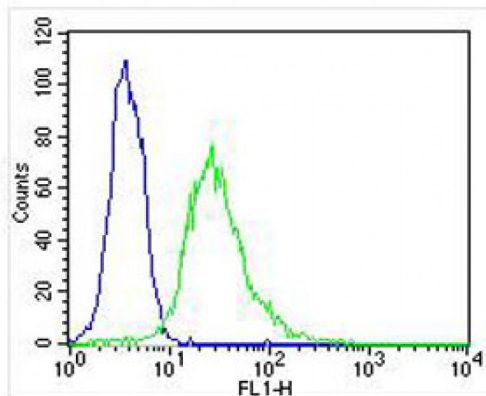
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EEF1E1 Antibody - Images

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling Pdx1 with AW5638 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG (NA166821) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).



All lanes : Anti-EEF1E1 Antibody at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 20 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing HeLa cells stained with AW5638 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5638, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (NA168821) at 1/400 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG2b (1 µg/1 × 10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

EEF1E1 Antibody - Background

Positive modulator of ATM response to DNA damage.

EEF1E1 Antibody - References

Motegi H., et al. Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
Mao M., et al. Proc. Natl. Acad. Sci. U.S.A. 95:8175-8180(1998).
Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Mungall A.J., et al. Nature 425:805-811(2003).
Bienvenut W.V., et al. Submitted (DEC-2008) to UniProtKB.

