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

Specification

EEF1E1 Antibody - Product Information

Application	**IF, WB, FC,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
WB~~1:2000
FC~~1:25

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

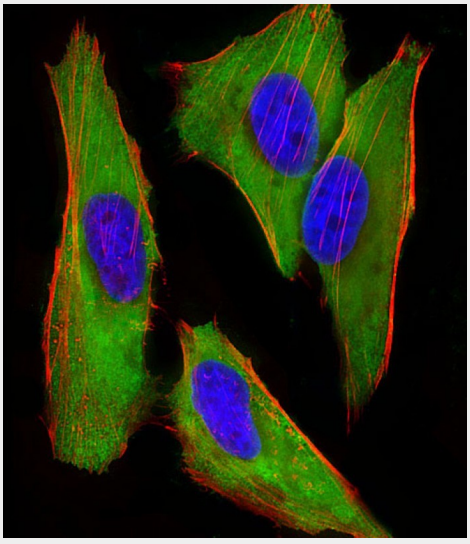
Tissue Location
Down-regulated in various cancer tissues.

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 Cytomety
- 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).

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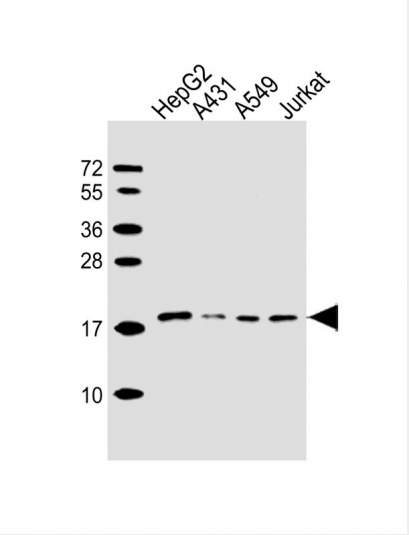
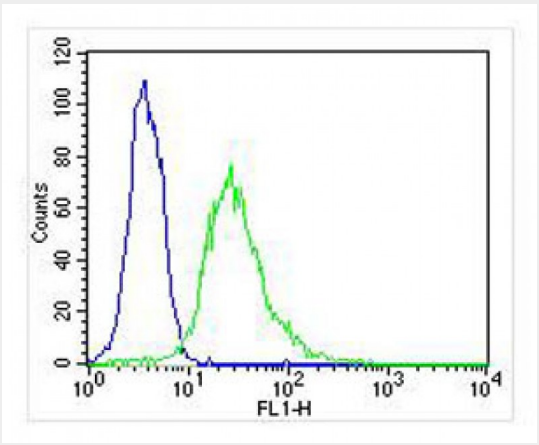


All lanes : Anti-EEF1E1 Antibody at1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted 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 icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5638, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(NA168821)) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was mouse IgG2b (1µg/1x10^6 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.

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