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EEF1E1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5638

Product Information

Application	IF, FC, WB
Primary Accession	O43324
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	19811
Isotype	IgG2b,κ
Antigen Source	HUMAN

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.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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.

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.

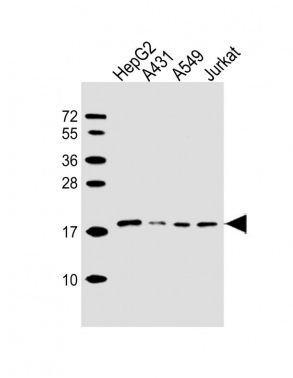
Background

Positive modulator of ATM response to DNA damage.

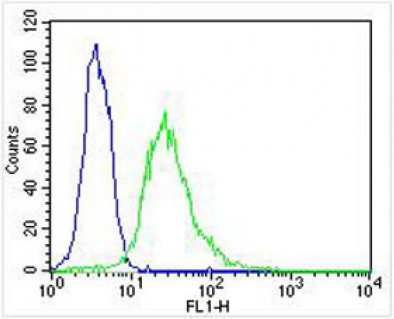
References

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.

Images

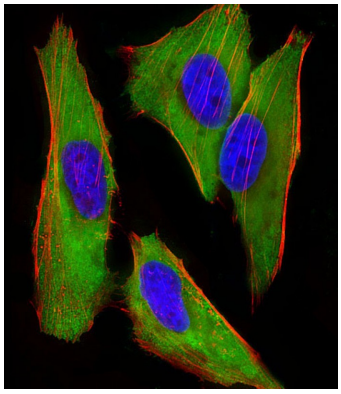


All lanes : Anti-EEF1E1 Antibody at1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted 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.

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).