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EEF1E1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8472b

Product Information

Application	WB, FC, IF, E
Primary Accession	O43324
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,κ
Clone Names	1494CT639.147.31
Calculated MW	19811

Additional Information

Gene ID	9521
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
Target/Specificity	This EEF1E1 antibody is generated from a mouse immunized with a recombinant protein of human EEF1E1.
Dilution	WB~~1:2000-1:4000 FC~~1:25 IF~~1:25 E~~Use at an assay dependent concentration.
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.

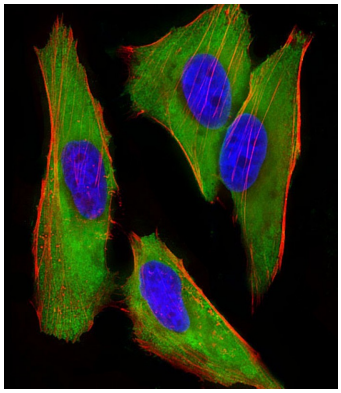
Background

Positive modulator of ATM response to DNA damage.

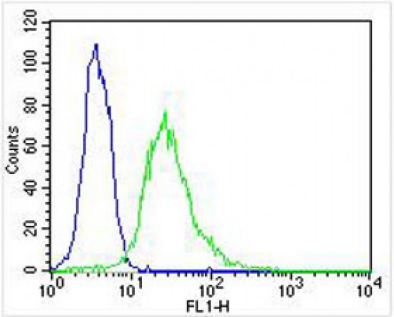
References

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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

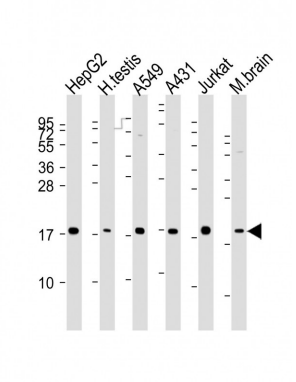


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling EEF1E1 with AM8472b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG (NA166821) secondary antibody at 1/200 dilution (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).



Overlay histogram showing Hela cells stained with AM8472b (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 (AM8472b, 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.

All lanes : Anti-EEF1E1 Antibody at 1:2000-1:4000 dilution Lane 1: HepG2 whole cell lysates Lane 2: human testis lysates Lane 3: A549 whole cell lysates Lane 4: A431 whole cell lysates Lane 5: Jurkat whole cell lysates Lane 6: mouse brain lysates 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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.