Phospho-CREB/ATF1 (Ser133, Ser63) Monoclonal Antibody (10E9)

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	10E9
Conjugate	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to amino acids 125-135 surrounding the Ser133 phosphorylation site of human CREB
Form	Liquid
Concentration	0.1 mg/mL
Purification	Size-exclusion chromatography
Storage buffer	PBS, pH 7.2, with sucrose, PEG, 50% glycerol
Contains	0.09% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2536825

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:500	-
Immunocytochemistry (ICC/IF)	1:20-1:200	1 Publication
Flow Cytometry (Flow)	1 µg/test	-
ELISA (ELISA)	0.05 µg/mL	-
ChIP assay (ChIP)	5 µL/10^6 cells	-

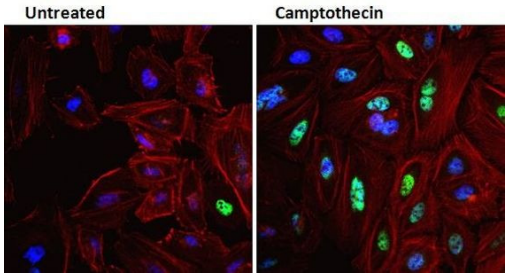
Product Specific Information

This antibody recognizes CREB protein phosphorylated at serine 133 and ATF1 phosphorylated at serine 63. The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

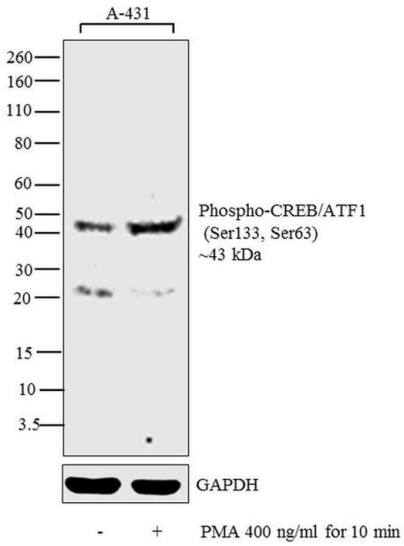
Aliquot and freeze in liquid nitrogen. Antibody can be stored frozen at -80ºC for up to 1 year. Thaw aliquots at 37ºC; thawed aliquots may be stored at 4ºC for up to 3 months. Avoid repeated freeze/thaw cycles.

This antibody was originally validated as part of a Thermo Scientific Cellomics High Content Screening Kit. The antibody sold separately may have slightly different performance and may need to be further optimized for the best results.

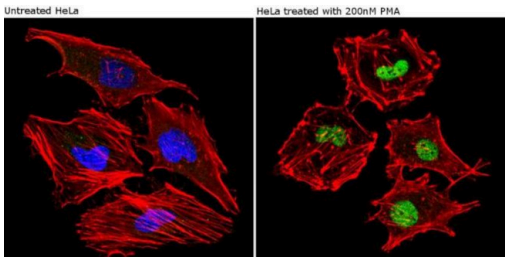
Product Images For Phospho-CREB/ATF1 (Ser133, Ser63) Monoclonal Antibody (10E9)



Phospho-CREB/ATF1 (Ser133, Ser63) Antibody (MA1-114) in ICC/IF
Immunofluorescent analysis of Phospho-CREB pSer133 (green) in HeLa cells either left untreated (left panel) or treated with 1uM Camptothecin (right panel) for 20 hours. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a Phospho-CREB pSer133 monoclonal antibody (Product # MA1-114) at a concentration of 4 µg/mL for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat anti-mouse IgG secondary antibody (Product # 35502) at a dilution of 1:400 for 30 minutes at room temperature. F-Actin (red) was stained with DyLight 554 Phalloidin (Product # 21834) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan and ToxInsight Instrument at 20X magnification.



Phospho-CREB/ATF1 (Ser133, Ser63) Antibody (MA1-114)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis using Phospho-CREB/ATF1 (Ser133, Ser63) antibody (Product # MA1-114), shows increase in expression of Phospho-CREB /ATF1 (Ser133, Ser63) upon treatment with PMA in A431 cell line. {TM}



Phospho-CREB/ATF1 (Ser133, Ser63) Antibody (MA1-114) in ICC/IF
Immunofluorescent analysis of Phospho-CREB pSer133 (green) showing staining in the in the nucleus of untreated HeLa cells (left) and HeLa cells treated with PMA (right) (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Phospho-CREB pSer133 monoclonal antibody (Product # MA1-114) in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4ºC in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

View more figures on thermofisher.com

1 Reference

Immunocytochemistry (1)

FEBS open bio

protaTETHER - a method for the incorporation of variable linkers in protein fusions reveals impacts of linker flexibility in a PKAc-GFP fusion protein.

"Published figure using Phospho-CREB/ATF1 (Ser133, Ser63) monoclonal antibody (Product # MA1-114) in Immunofluorescence"

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Year
2018