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Mouse Monoclonal Antibody to

CREB(phospho-Ser 133)/ ATF1 (phospho-Ser 63)

clone 10E9

Order No.: 0111-100/CREB/ATF1-10E9

Size (µg) 100

Lot No.: 0111S

02/160307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, ELISA	CREB:43kDa ATF1:38kDa	HepG2	phosphoserine 133 ...R R P pS Y R K...	phosphopeptide conjugated to KLH

Background and Specificity:

The transcription factor CREB activates transcription in response to a variety of extracellular signals. Various kinases, including Protein kinase A (PKA) , and CaM kinase II, regulate CREB activity by phosphorylation of serine 133.

Mab CREB/ATF1-10E9 specifically recognizes CREB phosphorylated at serine 133 and ATF1 phosphorylated at serine 63 in Western blot and ELISA applications.

Related Products

Purification: The antibody was purifed from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

Formulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H2O (15 min, RT).

Stability: For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

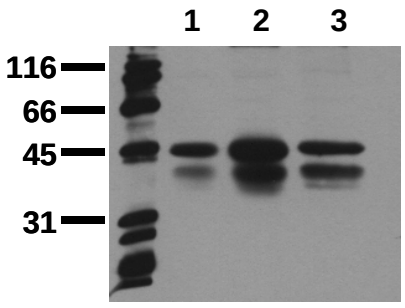
Positive Control: #0814: Cell lysate from Forskolin-treated HepG2 cells

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml



Phosphospecificity

Whole cell extracts of control (1), EGF stimulated (2) or pervanadate treated (3) A549 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab CREB/ATF1-10E9 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).