

Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 488 Conjugate)

✓ 100 µl
(50 tests)

New more concentrated formulation

rev. 03/17/11

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com

Support ■ 877-678-TECH (8324)
info@cellsignal.com

Web ■ www.cellsignal.com

Applications	Species Cross-Reactivity*	Isotype
F Endogenous	H, M, R, Mk	Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis of human cells. The unconjugated Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb #3007 reacts with human, mouse, rat and monkey Phospho-MAPKAPK-2. CST expects that Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 488 conjugate) will also recognize Phospho-MAPKAPK-2 in these species.

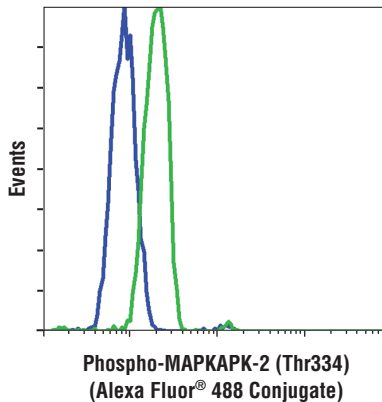
Background: In response to cytokines, stress and chemotactic factors, MAP kinase-activated protein kinase 2 (MAPKAPK-2) is rapidly phosphorylated and activated. It has been shown that MAPKAPK-2 is a direct target of p38 MAPK (1). Multiple residues of MAPKAPK-2 are phosphorylated *in vivo* in response to stress. However, only four residues (Thr25, Thr222, Ser272 and Thr334) are phosphorylated by p38 MAPK in an *in vitro* kinase assay (2). Phosphorylation at Thr222, Ser272 and Thr334 appears to be essential for the activity of MAPKAPK-2 (2). Thr25 is phosphorylated by p42 MAPK *in vitro*, but is not required for the activation of MAPKAPK-2 (2).

Specificity/Sensitivity: Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of MAPKAPK-2 protein only when phosphorylated at Thr334.

Source/Purification: Monoclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide (KLH-coupled) corresponding to residues surrounding Thr334 of human MAPKAPK-2. The antibody was conjugated to Alexa Fluor® 488 under optimal conditions with an F/P ratio of 2–6.

Background References:

- (1) Rouse, J. et al. (1994) *Cell* 78, 1027–1037.
- (2) Ben-Levy, R. et al. (1995) *EMBO J.* 14, 5920–5930.



Flow cytometric analysis of THP1 cells, untreated (blue) or anisomycin-treated (green), using Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 488 Conjugate).

Entrez-Gene ID #9261
Swiss-Prot Acc. #P49137

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide, 2 mg/ml BSA. Store at 4°C. *Protect from light. Do not freeze.*

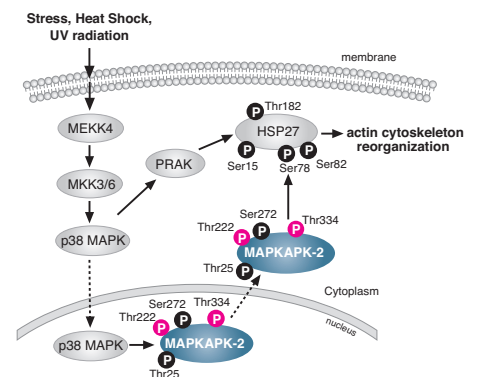
***Species cross-reactivity other than human is determined by Western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:

Flow Cytometry 1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.



Rabbit monoclonal antibody is produced under license (granting certain rights including those under U. S. Patents No. 5,675,063 and 7,429,487) from Epitomics, Inc.

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