



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

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at +4C  
#4320

## Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 647 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M R Mk	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P49137	<b>Entrez-Gene Id:</b> 9261
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity/Sensitivity</b>	Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 647 Conjugate) detects endogenous levels of MAPKAPK-2 protein only when phosphorylated at Thr334.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr334 of human MAPKAPK-2. This antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis of human cells. The unconjugated antibody #3007 reacts with human, mouse, monkey and rat. Phospho-MAPKAPK-2. CST expects that Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb (Alexa Fluor® 647 conjugate) will also recognize Phospho-MAPKAPK-2 in these species.	
<b>Background</b>	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 <i>in vivo</i> in response to stress. However, only four residues (Thr25, Thr222, Ser272, and Thr334) are phosphorylated by p38 MAPK in an <i>in vitro</i> 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 <i>in vitro</i> , but is not required for the activation of MAPKAPK-2 (2).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Rouse, J. et al. (1994) <i>Cell</i> 78, 1027-1037.</li> <li>2. Ben-Levy, R. et al. (1995) <i>EMBO J.</i> 14, 5920-5930.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey
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