

Store at -20C
#9329

MAPKAPK-2 Antibody Sampler Kit



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1 Kit (3 x 20 microliters)

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

| Product Includes | Product # | Quantity | Mol. Wt | Isotype/Source |
|--|-----------|----------|-----------------------------|----------------|
| Phospho-MAPKAPK-2 (Thr334) (27B7) Rabbit mAb | 3007 | 20 µl | 49 kDa | Rabbit IgG |
| Phospho-MAPKAPK-2 (Thr222) (9A7) Rabbit mAb | 3316 | 20 µl | 49 kDa | Rabbit IgG |
| MAPKAPK-2 (D1E11) Rabbit mAb | 12155 | 20 µl | 47, 49 (Phosphorylated) kDa | Rabbit IgG |
| Anti-rabbit IgG, HRP-linked Antibody | 7074 | 100 µl | | Goat |

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The MAPKAPK-2 Antibody Sampler Kit provides an economical means of evaluating levels of MAPKAPK-2 protein phosphorylated at specific sites, as well as total MAPKAPK-2 protein levels. The kit contains enough primary and secondary antibodies to perform two Western blot experiments.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

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).

Background References

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

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