

#9926 Store at -20°C

## MAPK Family Antibody Sampler Kit

1 Kit (3 x 20 microliters)



**Cell Signaling**  
TECHNOLOGY®

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

| Product Includes                        | Product # | Quantity | Mol. Wt    | Isotype/Source |
|---|-----------|----------|------------|----------------|
| p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb | 4695      | 20 µl    | 42, 44 kDa | Rabbit IgG     |
| SAPK/JNK Antibody                       | 9252      | 20 µl    | 46, 54 kDa | Rabbit         |
| p38 MAPK (D13E1) XP® Rabbit mAb         | 8690      | 20 µl    | 40 kDa     | Rabbit IgG     |
| Anti-rabbit IgG, HRP-linked Antibody    | 7074      | 100 µl   |            | Goat           |

Please visit [cellsignal.com](https://www.cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

### Description

The MAPK Family Antibody Sampler Kit provides an economical means of evaluating total levels of p38, p44/42, and SAPK/JNK mitogen-activated protein kinases. The kit contains enough primary and secondary antibody 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

p44/42 MAPK (Erk1/2), SAPK/JNK, and p38 MAPK function in protein kinase cascades that play a critical role in the regulation of cell growth, differentiation, and control of cellular responses to cytokines and stress. p44/42 MAPK is activated by growth and neurotrophic factors. Activation occurs through phosphorylation of threonine and tyrosine residues (Thr202 and Tyr204 in human Erk1) at the sequence T\*EY\* by a single upstream MAP kinase kinase (MEK). SAPK/JNK and p38 MAPK are activated by inflammatory cytokines and by a wide variety of cellular stresses. Activation of SAPK/JNK occurs via phosphorylation at Thr183 and Tyr185 by the dual specificity enzyme SEK/MKK4. Both MKK3 and SEK phosphorylate p38 MAPK on tyrosine and threonine at the sequence T\*GY\* to activate p38 MAP kinase (1-5).

### Background References

1. Lewis, T. S. et al. (1998) *Adv. Cancer Res.* 74, 49-139.
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4. Whitmarsh, A.J. and Davis, R.J. (1998) *Trends Biochem. Sci.* 23, 481-485.
5. Cobb, M.H. (1999) *Prog. Biophys. Mol. Biol.* 71, 479-500.

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