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#9938

Phospho-MAPK Family Rabbit mAb Sampler Kit

1 Kit (3 x 40 microliters)

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP [®] Rabbit mAb	4370	80 µl	44, 42 kDa	Rabbit IgG
Phospho-SAPK/JNK (Thr183/Tyr185) (81E11) Rabbit mAb	4668	40 µl	46, 54 kDa	Rabbit IgG
Phospho-p38 MAPK (Thr180/Tyr182) (12F8) Rabbit mAb	4631	40 µl	43 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	40 µl		Goat
U0126	9903	0.3 mg		

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

Description

Phospho-MAPK Family Rabbit mAb Sampler Kit contains 40 µl of each primary rabbit monoclonal antibody [Phospho-p44/42 MAPK (Thr202/Tyr204), Phospho-SAPK/JNK (Thr183/Tyr185), Phospho-p38 MAPK (Thr180/Tyr182)], 50 µl of anti-rabbit IgG secondary antibody (HRP conjugated) and 0.3 mg of the MEK1/2 Inhibitor (U0126).

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

- Lewis, T. S. et al. (1998) *Adv. Cancer Res.* 74, 49-139.
- Garrington, T.P. and Johnson, G.L. (1999) *Curr. Opin. Cell. Biol.* 11, 211-218.
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- Whitmarsh, A.J. and Davis, R.J. (1998) *Trends Biochem. Sci.* 23, 481-485.
- Cobb, M.H. (1999) *Prog. Biophys. Mol. Biol.* 71, 479-500.

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