Revision 1

Store at -20C

#9938

Phospho-MAPK Family Rabbit mAb Sampler Kit

1 Kit (3 x 40 microliters)

Cell Signaling TECHNOLOGY®

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

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

1. Lewis, T. S. et al. (1998) *Adv. Cancer Res.* 74, 49-139.
2. Garrington, T.P. and Johnson, G.L. (1999) *Curr. Opin. Cell. Biol.* 11, 211-218.
3. Schaeffer, H.J. and Weber, M.J. (1999) *Mol. Cell. Biol.* 19, 2435-2444.
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.

Trademarks and Patents

Limited Uses

attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.