

**MAPK Family Alexa Fluor® 647
Conjugated Antibody Sampler Kit**

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (197G2) Rabbit mAb (Alexa Fluor® 647 Conjugate)	13148	40 µl	42, 44 kDa	Rabbit IgG
Phospho-p38 MAPK (Thr180/Tyr182) (28B10) Mouse mAb (Alexa Fluor® 647 Conjugate)	4552	40 µl	40 kDa	Mouse IgG1
Phospho-SAPK/JNK (Thr183/Tyr185) (G9) Mouse mAb (Alexa Fluor® 647 Conjugate)	9257	40 µl	46 Phospho-JNK1. 54 Phospho-JNK2/3. kDa	Mouse IgG1
p44/42 MAPK (Erk1/2) (137F5) Rabbit mAb (Alexa Fluor® 647 Conjugate)	5376	40 µl		Rabbit IgG
Mouse (MOPC-21) mAb IgG1 Isotype Control (Alexa Fluor® 647 Conjugate)	4843	40 µl		Mouse IgG1
Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 647 Conjugate)	2985	40 µl		Rabbit IgG

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

Description

The MAPK Family Alexa Fluor® 647 Conjugated Antibody Sampler Kit provides an economical means to study the activation status of members of the MAPK family of proteins without the need for a fluorescent secondary antibody.

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

Mitogen-activated protein kinases (MAPKs) are a widely conserved family of serine/threonine protein kinases involved in many cellular programs, such as cell proliferation, differentiation, motility, and death. p38 MAP kinase (MAPK), also called RK (1) or CSBP (2), is the mammalian orthologue of the yeast HOG kinase that participates in a signaling cascade controlling cellular responses to cytokines and stress (1-4). The p44/42 MAPK (Erk1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines (5-7), and research investigators consider it an important target in the diagnosis and treatment of cancer (8). The stress-activated protein kinase/Jun-amino-terminal kinase (SAPK/JNK) is potently and preferentially activated by a variety of environmental stresses including UV and gamma radiation, ceramides, inflammatory cytokines, and in some instances, growth factors and GPCR agonists (9).

Background References

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7. Meloche, S. and Pouyssegur, J. (2007) *Oncogene* 26, 3227-39.
8. Roberts, P.J. and Der, C.J. (2007) *Oncogene* 26, 3291-310.
9. Davis, R.J. (1999) *Biochem Soc Symp* 64, 1-12.

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