

Technical support: <u>order@acebiolab.com</u> Phone: 886-3-2870051

## Datasheet

Ver.1 Date : 20180222

# Phospho-Erk1/2 Pathway Sampler Kit

Cat# AK0225

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

#### **PRODUCT DESCRIPTION**

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. 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, and research investigators consider it an important target in the diagnosis and treatment of cancer. Upon stimulation, a sequential three-part protein kinase cascade is initiated, consisting of a MAP kinase kinase kinase (MAPKK or MAP3K), a MAP kinase kinase (MAPKK or MAP2K), and a MAP kinase (MAPK). Multiple p44/42 MAP3Ks have been identified, including members of the Raf family, as well as Mos and Tpl2/COT. MEK1 and MEK2 are the primary MAPKKs in this pathway. MEK1 and MEK2 activate p44 and p42 through phosphorylation of activation loop residues Thr202/Tyr204 and Thr185/Tyr187, respectively. Several downstream targets of p44/42 have been identified, including p90RSK and the transcription factor Elk-1. p44/42 are negatively regulated by a family of dual-specificity (Thr/Tyr) MAPK phosphatases, known as DUSPs or MKPs, along with MEK inhibitors, such as U0126 and PD98059.

#### **PRODUCT INCLUDES**

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340316	Phospho-RAF1 (Ser338) Polyclonal	20µL	WB, ELISA	Human,	Rabbit
	Antibody			Mouse, Rat	
A340252	Phospho-MAP2K1/2 (Ser218/222)	20µL	WB, IHC, ELISA	Human,	Rabbit
	Polyclonal Antibody			Mouse, Rat	
A340370	Phospho-ERK 1/2 (Thr202/Tyr204)	20µL	WB, IHC, ELISA	Human,	Rabbit
	Polyclonal Antibody			Mouse, Rat	
A340299	Phospho-RPS6KA1 (Ser380) Polyclonal	20µL	WB, IHC, ELISA	Human,	Rabbit
	Antibody			Mouse, Rat	
A340317	Phospho-RPS6KA5 (Ser376) Polyclonal	20µL	WB, IF, ELISA	Human,	Rabbit
	Antibody			Mouse	
A1013s	Goat Anti-Rabbit IgG (H+L)	120µL	WB, ELISA	Rabbit	Goat
	(peroxidase/HRP conjugated)			KAUDIL	



### **PRODUCT USE LIMITATION**

These products are intended for research use only.

