



## Product Information Sheet

### Monoclonal Anti-MAP Kinase, Activated (Diphosphorylated ERK-1&2)

**Catalogue No.** MA1055

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Lot No.** 08A12

**Application**

**Clone:** IL-13

*Western blot*

At 0.25-0.5µg/ml with the appropriate system to detect MAP kinase, activated (Diphosphorylated ERK-1&2) in cells and tissues.

**Ig type:** mouse IgG1

*Immunohistochemistry(P)*

**Size:** 100µg/vial

At 0.4-1µg/ml to detect involucrin in formalin fixed and paraffin embedded tissues.

**Specificity**

Human, mouse, rat, yeast.

No cross reactivity with other proteins.

*Immunocytochemistry*

Suitable

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

**Recommended application**

*Western blot*

*Immunohistochemistry(P)*

*Immunocytochemistry*

**Formulation**

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

**To reorder contact us at:**

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

### BACKGROUND

In mammalian cells, a variety of extracellular stimuli generate intracellular signals that converge on a limited number of so-called mitogen-activated protein (MAP) kinase pathways. The central core of each MAP kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a specific MAPK. Mek1/2 MAPK kinases are essential for mammalian development, homeostasis, and Raf-induced hyperplasia. Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome.

### REFERENCE

1. Rodriguez-Viciana, P.; Tetsu, O.; Tidyman, W. E.; Estep, A. L.; Conger, B. A.; Santa Cruz, M.;

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

McCormick, F.; Rauen, K. A. : Germline mutations in genes within the MAPK pathway cause cardio-facio-cutaneous syndrome. *Science* 311: 1287-1290, 2006.

2. Scholl, F. A.; Dumesic, P. A.; Barragan, D. I.; Harada, K.; Bissonauth, V.; Charron, J.; Khavari, P. A. : Mek1/2 MAPK kinases are essential for mammalian development, homeostasis, and Raf-induced hyperplasia. *Dev. Cell* 12: 615-629, 2007.