Anti-Phospho-p44/42 MAPK (Erk1/2)[T202/Y204]-167Er

Catalog #: 3167005A  
Clone: D13.14.4E  
Package Size: 50 tests  
Isotype: Rabbit IgG  
Storage: Store product at 4°C. Do not freeze.  
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Cross Reactivity: Rat, Mouse, Human, Bovine, Canine, Porcine, Hamster, Monkey

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

Human Jurkat T cells were incubated for 15 minutes with wortmannin (blue) or with PMA and ionomycin (red). Cells were then fixed, permeabilized, and stained with 167Er-anti-pERK1/2 (T202/Y204)(D13.14.4E).

Description

ERK1 and ERK2, also known as p44 and p42 MAPKs, are similar (85% sequence identity) members of the mitogen activated protein kinase (MAPK) family of serine/threonine protein kinases. ERK1/2 signaling is important in the cellular response to a wide range of stimuli including growth factors, cytokines, and mitogens. The signal cascade upstream of ERK1/2 typically begins with receptor tyrosine kinases phosphorylating members of the Raf family and other MAP kinase kinase kinases (MAP3Ks), which thereby activate MEK1 and MEK2, the MAP kinase kinases (MAPKKs) directly responsible for phosphorylation of ERK1 and ERK2. ERK1 and ERK2 are activated through phosphorylation of the activation loop residues Thr202/Tyr204 and Thr185/Tyr187, and dual phosphorylation is required for full activity. ERK1/2 can activate the RSK family of kinases in the cytoplasm and several transcription factors (i.e. Elk-1) in the nucleus.

References


Contact Information:
Sales: sales@DVSsciences.com | Support: support@DVSsciences.com  
www.DVSsciences.com | For assistance by phone: 855-DVS-CYTO

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