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## 12-4007: Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (Clone: A11) rabbit mAb APC conjugate

Clonality: Monoclonal

Clone Name: ERK12T202Y204-A11

Application: FACS

Reactivity: Human, Mouse

Conjugate: APC

Format: Conjugated

Alternative Name: Mitogen-activated protein kinase 3, MAPK3, ERK2, p44-MAPK, PRKM3, Mitogen-activated protein

kinase 1, MAPK1, ERK1, p42-MAPK, PRKM1, PRKM2

Isotype: Rabbit IgG1k

Immunogen Information : A synthetic phospho-peptide corresponding to residues surrounding Thr202/Tyr204 of human

phospho Erk1/2.

## **Description**

Human Erk1 and Erk2 Ser/Thr kinases share 84% sequence identity and nearly all functions. These MAP kinases are activated in response to mitogens and growth factors as part of the Ras-Raf-MEK-ERK signal transduction cascade. This pathway regulates cell survival, differentiation, adhesion, cell cycle progression, and many other cellular processes. Upon phosphorylation, Erk1/2 translocate to the nucleus to activate transcription factors including c-Fos, Elk1, Ets1, and SP-1. There are more than 175 known cytoplasmic and nuclear substrates of Erk1/2. The Erk1/2 cascade is upregulated in many human cancers, even when oncogenic mutations are not found. Multiple small-molecule inhibitors of Erk1/2 have been developed, including ones targeting the ATP-binding site either competitively or irreversibly.

## **Product Info**

Amount: 10 Tests / 100 Tests

Content: 1X PBS, 0.09% NaN3, 0.2% BSA

**Storage condition :** Store at 2-8°C. Avoid repeated freeze and thaw cycles.

## **Application Note**

For flow cytometric staining, the suggested use of this reagent is 5  $\hat{A}\mu L$  per million cells or 5  $\hat{A}\mu L$  per 100  $\hat{A}\mu L$  of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

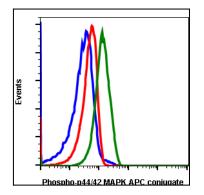


Fig-1: Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or treated with U0126 (red) or treated with TPA (green) using Phospho-ERK1/2 (Thr202/Tyr204) A11 APC antibody ERK12T202Y204-A11.