

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ERK12T202Y204-A11
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human, Mouse
<b>Conjugate :</b>	APC
<b>Format :</b>	Conjugated
<b>Alternative Name :</b>	Mitogen-activated protein kinase 3, MAPK3, ERK2, p44-MAPK, PRKM3, Mitogen-activated protein kinase 1, MAPK1, ERK1, p42-MAPK, PRKM1, PRKM2
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	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

<b>Amount :</b>	10 Tests / 100 Tests
<b>Content :</b>	1X PBS, 0.09% NaN <sub>3</sub> , 0.2% BSA
<b>Storage condition :</b>	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  $\mu$ L per million cells or 5  $\mu$ L per 100  $\mu$ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

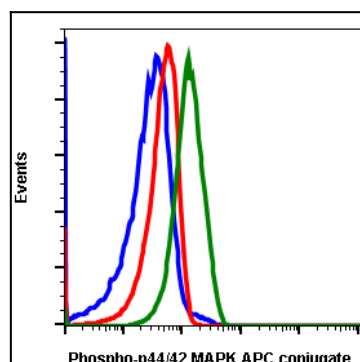


Fig-1: Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or treated with U0126 (red) or treated with TPA (green) using Phospho-ERK1/2 (Thr202/Tyr204) A11 APC antibody ERK12T202Y204-A11.