

12-4008: Phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (Clone: A11) rabbit mAb SureLight 488 conjugate

Clonality :	Monoclonal
Clone Name :	ERK12T202Y204-A11
Application :	FACS
Reactivity :	Human, Mouse
Conjugate :	SureLight 488
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% NaN ₃ , 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 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

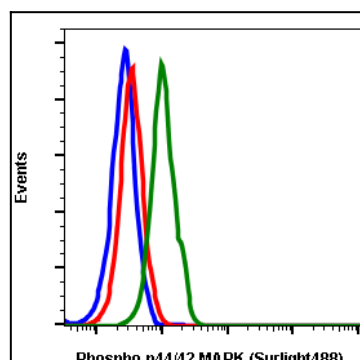


Fig-1: Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or treated with U0126 (red) or treated with TPA (green) using Phospho-ERK1/2 (Thr202/Tyr204) antibody ERK12T202Y204-A11 SureLight488.