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## 12-4147: Phospho-p38 MAPK (Thr180/Tyr182) (Clone: E3) rabbit mAb SureLight488 Conjugate

Clonality: Monoclonal

Clone Name: p38MAPKT180Y182-E3

Application: FACS

Reactivity: Human, Mouse
Conjugate: SureLight 488
Format: Conjugated

CSAID-binding protein; CSBP; CSPB1; Cytokine suppressive anti-inflammatory drug-binding

Alternative Name: protein; EXIP; MAP kinase MXI2; MAPK14; MAX-interacting protein 2; Mitogen-activated protein

kinase 14; MK14; MXI2; PRKM14; RK; SAPK2A; stress-activated protein kinase 2A

Isotype: Rabbit IgG1k

Immunogen Information: A synthetic phosphor-peptide corresponding to residues surrounding Thr180 and Tyr182 of human

phospho p38MAPK

## **Description**

P38 mitogen-activated protein kinase (MAPK) is a stress-activated serine/threonine protein kinase and belongs to the MAP kinase superfamily. Various stress stimuli such as ultraviolet light, irradiation, heat shock, proinflammatory cytokines, mitogens, and high osmotic stress can activate p38 MAPK through phosphorylation of a TGY motif within the kinase activation loop (1). This event plays an improtant role in cell differentiation, apoptosis and autophagy. MKK3 and SEK activate p38 MAPK by phosphorylation at Thr-180 and Tyr-182. Activated p38 MAPK has been shown to phosphorylate and activate MAPKAP kinase 2 and to phosphorylate the transcription factors ATF2, Mac and MEF2. p38 MAPK also has been shown to phosphorylate post-transcriptional regulating factors like TTP (2).

## **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.

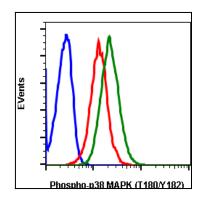


Fig-1: Flow cytometric analysis of C6 cells unstained and untreated (blue) or stained and untreated (red) or stained and treated with staurosporine (green) using phosphop38 MAPK (Thr180/Tyr182) antibody P38MAPKT180Y182-E3 SureLight488 conjugate.