Phospho-p38 MAPK (Thr180/Tyr182) (E3) rabbit mAb

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Catalog: #1156 **Store at:** -20ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse,Rat

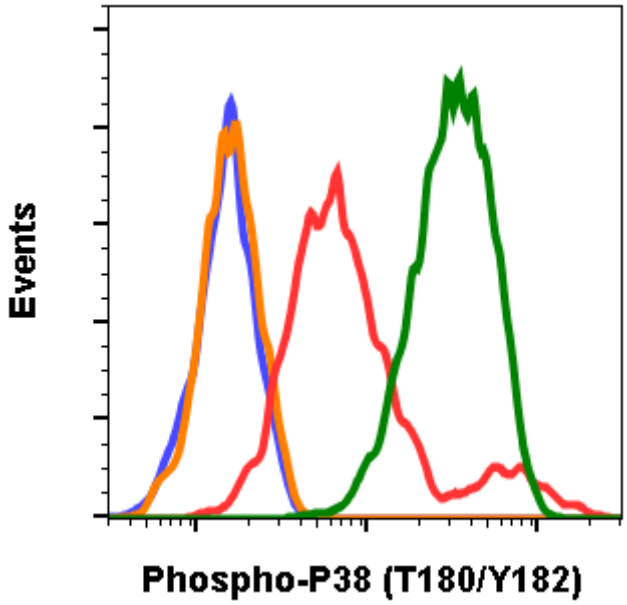
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Thr180/Tyr182 of human phospho p38 MAPK.

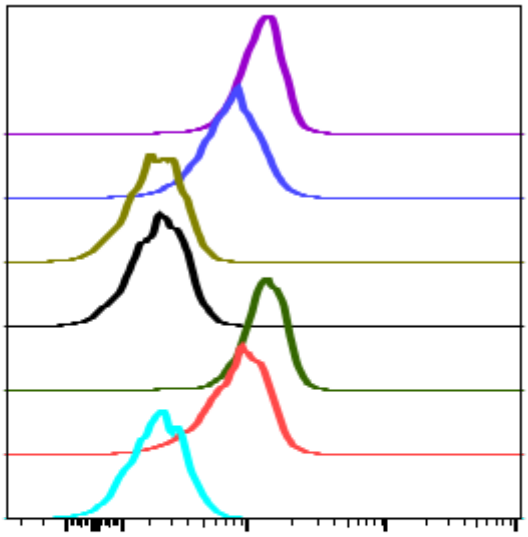
Description: P38 mitogen-activated protein kinase (MAPK) is a stress-activated serine/threonine protein kinase and belongs to the MAP kinase superfamily. Various stress stimuli such as ultraviolet light, irradiation, heat shock, proinflammatory cytokines, mitogens, and high osmotic stress can activate 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).

References:

(1) Corre I, Paris F, Huot J. (2017) Oncotarget. 8:55684-55714.
(2) Tudor C, Marchese FP, Hitti E, et al. (2009) FEBS Letters. 583: 1933–1938.

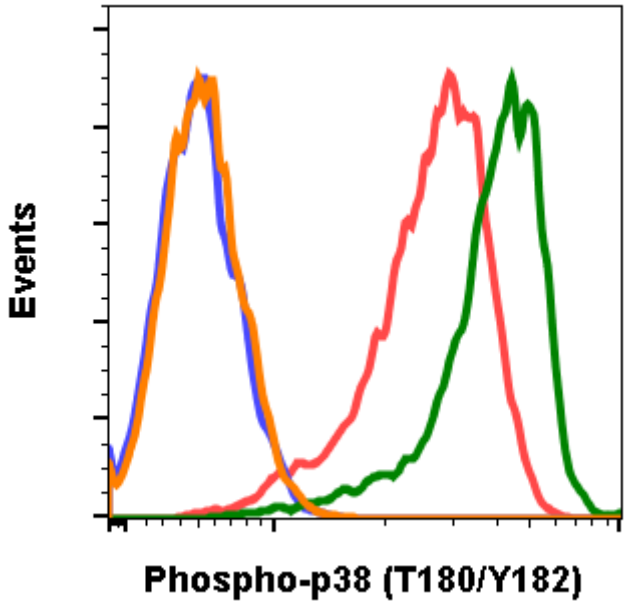


Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control Cat. #2141 (orange) or untreated (red) or treated with staurosporine (green) using Phospho-p38 MAPK (Thr180/Tyr182) antibody P38T180Y182-E3 at 0.1 µg/mL. Cat. #1156.

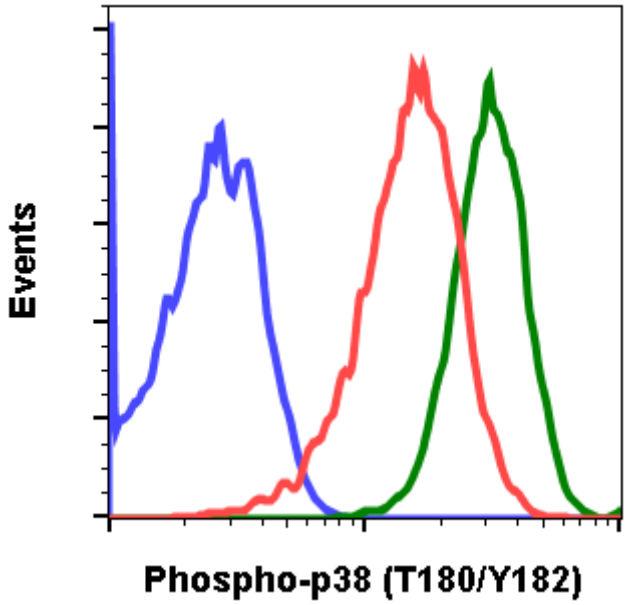


	SampleID	Median : BL1-A
	Staur E3 N	1233
	Ctrl E3 N	785
	Staur E3 P	234
	Ctrl E3 P	249
	Staur E3	1305
	Ctrl E3	880
	Ctrl 2' only	245

Peptide blocking flow cytometric analysis of C6 cells secondary antibody only negative control (light blue) or untreated (red) or treated with staurosporine (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-p38 MAPK (Thr180/Tyr182) antibody P38T180Y182-E3 at 5ng/mL. Cat. #1156.



Flow cytometric analysis of A431 cells secondary antibody only (blue) or untreated with 0.01 µg/mL of isotype control Cat. #2141 (orange) or untreated (red) or staurosporine-treated (green) using 0.01 µg/mL of Phospho-p38 MAPK (Thr180/Tyr182) antibody P38T180Y182-E3 Cat. #1156.



Flow cytometric analysis of C6 cells secondary antibody only negative control (blue) or untreated (red) or treated with staurosporine (green) using phospho-p38 MAPK (Thr180/Tyr182) antibody P38T180Y182-E3 0.01 µg/mL. Cat. #1156.