

Anti-p38 [T180/Y182]-156Gd

Catalog: 3156002A

Package size: 50 tests

Storage: Store product at 4 °C. Do not freeze.

Cross-reactivity: Rat, Mouse, Human, Bovine, Porcine, Hamster, Monkey

Clone: D3F9

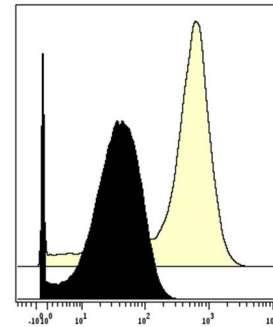
Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

Technical Information

Validation: Each lot of conjugated antibody is quality control-tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended usage: The suggested use is 1 µL for up to 3 × 10⁶ live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



p38 [T180/Y182] (D3F9)-156Gd

Human Jurkat T cells were incubated for 15 minutes in media alone (bottom) or with pervanadate (top). Cells were then fixed, permeabilized and stained with 156Gd-anti-p38 [T180/Y182] (D3F9).

Description

p38 MAP kinase is a member of the mitogen activated protein kinase (MAPK) family of serine/threonine protein kinases involved in responses to cellular stresses such as inflammatory cytokines, bacterial lipopolysaccharide, UV exposure, osmotic shock, or growth factors. p38 exists in four isoforms, p38a (MAPK14), p38β (MAPK11), p38γ (MAPK12), and p38δ (MAPK13). Upstream kinases MKK3, SEK1/MKK4, and MKK6 can activate the p38 isoforms through dual phosphorylation of Thr180 and Tyr182. Activated p38 transmits the signal to immediate targets including MAPKAPK2 and HSP27. The subsequent activation of transcription factors (i.e. ATF2, MEF2, and TCF) results in upregulation of genes related to a stress response, such as proinflammatory cytokines.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

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