

Anti-Phospho-MAPKAPK-2[Thr334]-159Tb

Catalog #: 3159010A

Package Size: 50 tests

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

Cross Reactivity: Cynomolgus Monkey, Rat, Mouse, Human

Clone: 27B7

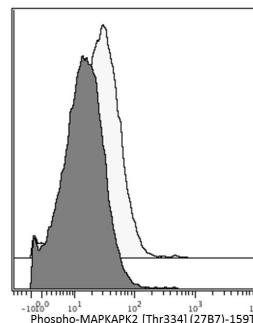
Isotype: Rabbit IgG

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 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human U937 monocytic cells were incubated for 15 minutes in media alone (bottom) or with Anisomycin (top). Cells were then fixed, permeabilized, and stained with 159Tb-anti- Phospho-MAPKAPK2 [Thr334] (27B7).

Description

The MAPK-activated protein kinase 2 (MAPKAPK2, MK2), was discovered as an ERK-1/2-activated protein kinase that could phosphorylate heat shock proteins 25 and 27, and it was later discovered that MAPKAPK2 is actually stimulated by p38 in response to stress stimuli. MAPKAPK2 is expressed predominantly in the heart, skeletal, muscle and kidney tissue, and is located mainly in the nuclei of quiescent cells. Upon stimulation, MAPKAPK2 is rapidly exported to the cytoplasm. MAPKAPK2 is activated under various stress conditions that stimulate the p38 isoforms such as UV irradiation, heat shock, oxidative stress, hyperosmolarity and various 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* 81:6813-6822, 2009.

Bendall, S.C., et al. Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* 6 May 2011: 687-696.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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