

Anti-Phospho-S6[pS235/pS236]-172Yb

Catalog #: 3172008A

Package Size: 50 tests

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

Cross Reactivity: Rat, Mouse

Clone: N7-548

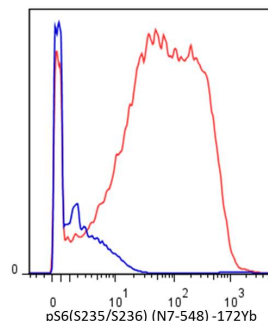
Isotype: Mouse IgG1

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 μ l for up to 3×10^6 live cells in 100 μ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human Jurkat T cells were incubated for 15 minutes in media alone (blue) or with pervanadate (red). Cells were then fixed, permeabilized, and stained with 172Yb-anti-pS6 [S235/S236] (N7-548).

Description

Ribosomal protein S6 belongs to the S6E family of ribosomal proteins and is a component of the 40S ribosomal subunit. It plays a role in regulation of translation and thus relates to the growth of cells. Phosphorylation of S6 at multiple C-terminal serine residues, including S235, S236, S240, and S244, activates it. Activated S6 upregulates ribosomal translation of RNA species. These phosphorylations are mediated by various kinases, including p70S6K and PKCD, and activated through cellular responses to extrinsic factors. The N7-548 monoclonal antibody specifically detects the S6 ribosomal protein phosphorylated at S235 and S236.

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.

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

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