DVS Sciences

Product Information Sheet

Anti-p-NF-kBp65[pS529]-166Er

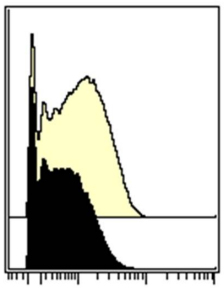
Catalog #: 3166006A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Cross Reactivity: Human

Clone: K10-895.12.50
Isotype: Mouse IgG2b
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 postive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



pNFkB (S129) – 166Er

Human PBMCs were incubated for 15 minutes in media alone (bottom) or with with PMA and Ionomycin (top). Cells were then fixed, permeabilized, and stained with 166Er-anti-pNFkB [pS529] (K10-895.12.50). T lymphocytes are displayed in the analysis.

Description

NFκB-p65, also known as RelA, is a subunit of the NFκB transcription factor complex, an important mediator of inflammatory and immune responses. NFκB-p65 is normally sequestered in the cytoplasm through an interaction with IκB. NFκB translocates to the nucleus when IκB is degraded in response to stimuli such as TNFa. In mammals, there are five members of the NFκB family that can form heterodimers in the nucleus to activate different sets of genes. The Ser529 site on the C-terminal transactivation domain of NFκB-p65 is often phosphorylated in response to the same stimuli that result in degradation of IκB. This phosphorylation improves the transcriptional activity of p65, but does not affect nuclear translocation or DNA binding. The K10-895.12.50 monoclonal antibody recognizes the phosphorylated serine (pS529) of human NF-kB p65 subunit.

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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