Anti-Cleaved Caspase3-142Nd

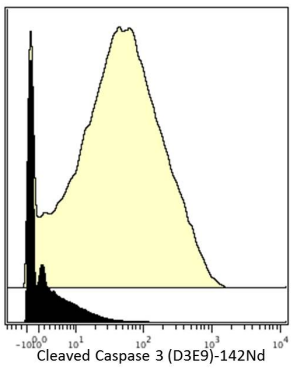
Catalog: 3142004A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Rat, Mouse, Bovine, Porcine, Monkey,

Clone: D3E9
Isotype: 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 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human Jurkat T cells were incubated for 18 hours in media alone (bottom) or with Etoposide (top). Cells were then fixed, permeabilized, and stained with 142Nd-anti-Cleaved Caspase 3 (D3E9).

Description

Caspase-3 (CPP32/YAMA/APOPAIN) is a 32 kDa cysteine protease that is activated during the early stages of apoptosis. Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments, which associate to form the active enzyme. Caspase-3 is either partially or totally responsible for the proteolytic cleavage of many key proteins, such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP). Caspase-3 is widely distributed including high expression in cells of lymphoid origin, and active caspase-3 is a marker for cells undergoing apoptosis. Caspase-3 also plays an important role in morphogenetic cell death during development of the mammalian brain. The D3E9 antibody reacts with the active form of Caspase-3.

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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