

Anti-Human pCleaved Caspase-7-152Sm

Catalog: 3152014A

Clone: D6H1

Package Size: 50 tests

Isotype: Not Specified

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

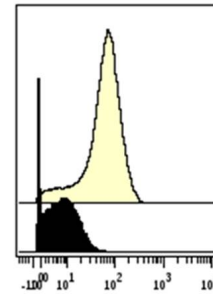
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human

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.



Caspase 7 (D6H1)-152Sm

Human Jurkat T cells were incubated for 24 hours in media alone (bottom) or with etoposide (top). Cells were then fixed, permeabilized, and stained with 152Sm-anti-Cleaved Caspase 7 (D6H1).

Description

Caspase-7, a member of the caspase (cysteine aspartate protease) family of proteins, has been shown to be an executioner protein of apoptosis upon cell death stimuli. During apoptosis, caspase-7 is activated through proteolytic processing at conserved aspartic residues by upstream enzymes, including caspase 3, 6, 8, 9 and granzyme B. Active caspase 7 is in the form of a heterotetramer with two large and two small subunits. As an effector caspase similar to caspase-3, caspase-7 cleaves downstream substrates like poly (ADP-ribose) polymerase (PARP) through the recognition sequence DEVD.

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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