Anti-Pan-Actin-175Lu

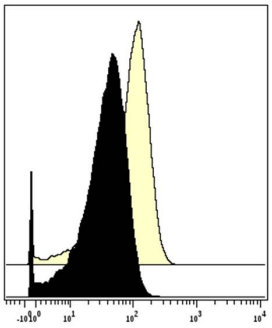
Catalog: 3175026A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Rat,Mouse,Human,Monkey

Clone: D18C11
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 Hela cells (top) and human Jurkat cells (bottom) were fixed, permeabilized, and stained with 175Lu-anti-Pan-Actin (D18C11).

Description

Actins are highly conserved cytoskeletal proteins that are ubiquitously expressed in all eukaryotic cells. There are six known isoforms of actin in mammals. Nonmuscle β- and γ-actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells, controlling cell structure and motility. Two smooth muscle actins, α- and γ-actin, are found primarily in vascular smooth muscle and enteric smooth muscle, respectively. α-cardiac and α-skeletal actin are expressed in striated cardiac and skeletal muscles, respectively. Actin can be present as either a free monomer called G-actin (globular) or as part of a linear polymer microfilament called F-actin (filamentous), both of which are essential for cellular functions such as the mobility and contraction of cells during cell division.

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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EMAIL
United States support.northamerica@fluidigm.com | Europe support.europe@fluidigm.com
Asia techsupportasia@fluidigm.com | Latin America techsupporlatam@fluidigm.com
All other countries techsupport@fluidigm.com

PHONE
United States (toll-free) +1 866 358 4354 | Europe +33 1 60 92 42 40
Japan +81 3 3662 2150 | China (excluding Hong Kong) +86 21 3255 8368
All other countries +1 650 266 6100