

## Anti-Human CyclinB1-153Eu

**Catalog #:** 3153009A

**Package Size:** 50 tests

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

**Cross Reactivity:** Mouse, Human, Hamster

**Clone:** GNS-1

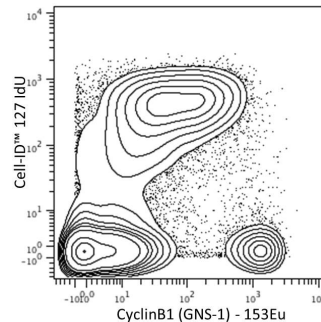
**Isotype:** Mouse IgG1

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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<sup>6</sup> 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 30 minutes in media containing 50 µM Cell-ID™ 127 IdU. Cells were fixed, permeabilized and stained with 153Eu-anti-CyclinB1 (GNS-1).

### Description

Cyclin B1 is one of the key regulators of the cell cycle, regulating the transition from G2 to M phase in complex with the cyclin-dependent protein kinase cdc2. Cyclin B1 expression initiates during S-phase, peaks at G2/M phase, and at the end of mitosis cyclin B1 is rapidly degraded. Cyclin B1 is needed for cells to enter mitosis, and therefore essential for growth of all cells, including tumor cells. In normal cells, cyclin B1 is expressed at almost undetectable levels; however, many tumors express high constitutive levels of cyclin B1, which causes uncontrolled tumor growth. This overexpression has been observed in several human solid tumors, for example, breast cancer (BC), malignant melanoma (MM), and renal cell carcinoma (RCC), as well as some hematological cancers. This antibody has been reported to react with hamster and mouse cyclin B1. In addition, the GNS-1 clone has been reported to recognize an epitope between amino acids 1-21 of human cyclin B1.

### 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.

Behbehani, G.K., et al. Single-cell mass cytometry adapted to measurements of the cell cycle. *Cytometry A* 81 (7): 552-566, 2012.

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

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