

Anti-Human p21 Waf1/Cip1-159Tb

Catalog: 3159026A

Clone: 12D1

Package Size: 50 tests

Isotype: IgG

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

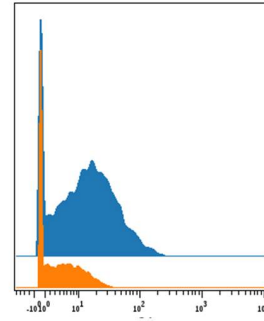
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human, Monkey,

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.



p21/Waf1/Cip1 (12D1) - 159Tb

Human MCF7 cells (blue) and human Jurkat cells (orange) stained with 159Tb-anti-p21/WAF1/CIP1 (12D1). Total viable cells are displayed in the analysis.

Description

p21 (CIP1/WAF1), also known as cyclin-dependent kinase inhibitor 1 or CDK-interacting protein 1, binds to and inhibits cyclin-dependent kinase activity, and thus blocks progression from G1 to S phase in the cell cycle. The expression of p21 is tightly controlled by the tumor suppressor protein p53. Upon DNA damage, p53 is phosphorylated and upregulates p21 transcription via a p53-responsive element. p21 is expressed in all adult human tissues. The expression of p21 is also associated with favorable prognosis in various tumors.

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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