

Anti-Human CD274/PD-L1-159Tb

Catalog: 3159029B

Package size: 100 tests

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

Cross-reactivity: Chimpanzee, Squirrel Monkey, African Green, Marmoset

Clone: 29E.2A3

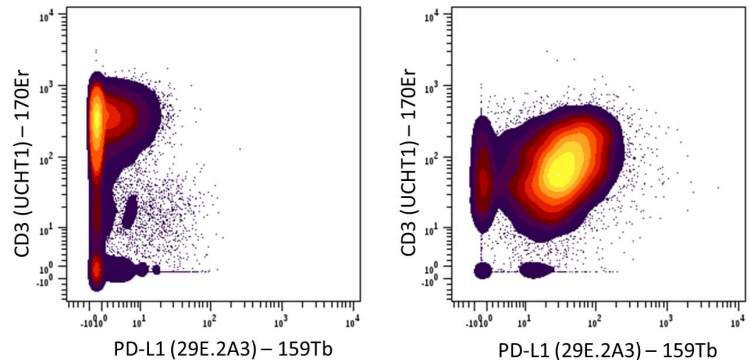
Isotype: Mouse IgG2b

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 3×10^6 live cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were incubated for 3 days in media alone (left) or with PHA (right) and then cells were stained with 170Er-anti-CD3 (UCHT1) and 159Tb-anti-CD274/PD-L1 (29E.2A3). CD45⁺ CD14⁻ cells are displayed in the analysis.

Description

PD-L1 (also known as CD274 and B7-H1), one of the ligands for programmed cell death 1 (PD-1), is an immune-inhibitory receptor belonging to the CD28/cytotoxic T lymphocyte antigen 4 (CTLA-4) family. It can deliver an inhibitory signal to PD-1/B7-1 expressing T cells, resulting in immune suppressive effects. PD-L1 is expressed on activated T cells, B cells, NK cells, DCs, macrophages and bone marrow-derived mast cells. PD-L1 expression is also found on a wide range of human tumors. In addition, studies have shown that PD-L1 expression strongly correlates with unfavorable prognosis in kidney, ovarian, bladder, breast, liver, gastric and pancreatic cancer, but not in non-small cell lung cancer (NSCLC). Most importantly, these studies reveal that higher expression of PD-L1 may facilitate advancement of tumor stage and increase the invasion potential. PD-L1 expression can be induced by many inflammatory mediators and cytokines, of which interferon- γ (IFN- γ) is the most potent.

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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

For technical support visit fluidigm.com/support.

North America +1 650 266 6100 | Toll-free: +1 866 358 4354 in the US | support.northamerica@fluidigm.com **Europe** +33 1 60 92 42 40 | support.europe@fluidigm.com

China (excluding Hong Kong) +86 21 3255 8368 | techsupportchina@fluidigm.com **Japan** +81 3 3662 2150 | techsupportjapan@fluidigm.com

All other Asian countries +1 650 266 6100 | techsupportasia@fluidigm.com **Central and South America** +1 650 266 6100 | techsupportlatam@fluidigm.com

For Research Use Only. Not for use in diagnostic procedures.

This product contains antibodies manufactured by and sold under license from BioLegend[®] and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information** www.fluidigm.com/sds **Patent and license information** www.fluidigm.com/legalnotices | Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2016 Fluidigm Corporation. All rights reserved. 11/2016