

## Anti-Human CD127[IL-7Ra]-143Nd

**Catalog #:** 3143012B

**Package Size:** 100 tests

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

**Cross Reactivity:** Human

**Clone:** A019D5

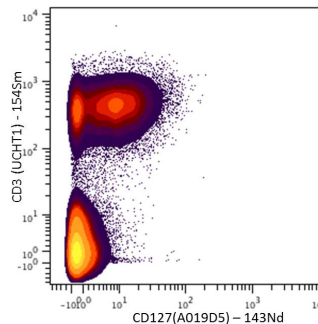
**Isotype:** Mouse IgG1

**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 PBMCs stained with 154Sm-anti-CD3 (UCHT1) and 143Nd-anti-CD127 (A019D5). CD45+ CD33- cells are displayed in the analysis.

### Description

CD127, also known as the IL-7 receptor  $\alpha$  chain or IL-7 $\alpha$ , is a 60-90 kD type I transmembrane glycoprotein. It is a heterodimer consisting of IL-7R $\alpha$  (CD127) and common- $\gamma$  chain receptor (CD132), which is shared with various cytokines including IL-2,-4,-9,-13,-15 and -21. CD127 is expressed on immature B through early pre-B stage cells, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. It can be a useful marker for identifying memory and effector T cells and differentiation of Treg and conventional T cells. Antibody clone A019D5 recognizes a cell surface epitope of CD127.

### 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.

### Contact Information:

Sales: sales@DVSsciences.com | Support: support@DVSsciences.com  
 www.DVSsciences.com | For assistance by phone: 855-DVS-CYTO

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