

Anti-Mouse CD39-142Nd

Catalog: 3142005B

Package Size: 100 tests

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

Reactivity: Mouse,

Clone: 24DMS1

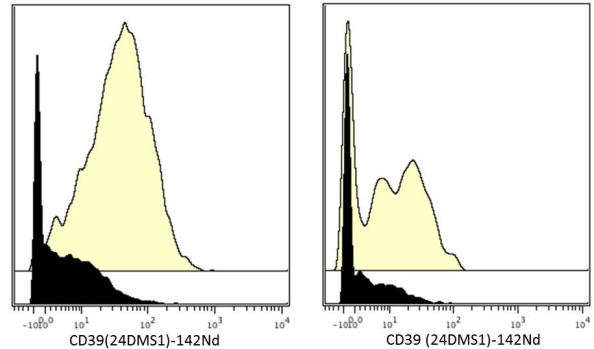
Isotype: IgG2a

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 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



LEFT: C57BL/6 mouse splenocytes stained with 142Nd-anti-CD39 (24DMS1). Myeloid cells (top) and CD8 T cell (bottom) are displayed in the analysis. RIGHT: Balb/c mouse splenocytes stained with 142Nd-anti-CD39 (24DMS1). CD4+Foxp3+ Tregs (top) and CD4+Foxp3- T cells (bottom) are displayed in the analysis.

Description

CD39, also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), is an integral membrane protein with two transmembrane domains and exists as a homotetramer. E-NTPDases are ectoenzymes that convert nucleoside tri- and diphosphates (NTPs) into nucleoside monophosphate (NMP), thereby removing cytotoxic ATP and ADP. CD39 is expressed in B cells, subsets of dendritic cells and most monocytes. In addition, CD39 along with another E-NTPase, CD73, is expressed on CD4+CD25+ immunosuppressive regulatory T (Treg) cells. Tregs from CD39-deficient mice show impaired suppressive properties in vitro and in vivo.

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.

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

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