

## Anti-Human CD39-160Gd

**Catalog #:** 3160004B

**Package Size:** 100 tests

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

**Cross Reactivity:** Rhesus

**Clone:** A1

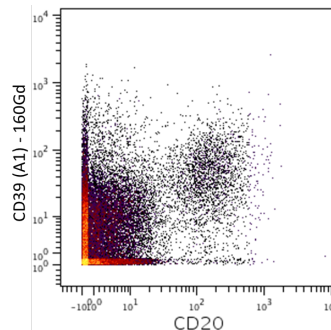
**Isotype:** Mouse IgG1

**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 147Sm-anti-CD20 (2H7) and 160Gd-anti-CD39 (A1). Lymphocytes 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. It is found on subsets of activated T cells and B cells, and dendritic cells with weak staining on monocytes and granulocytes. Expression of CD39 is induced on T cells and increased on B cells as a late activation antigen. CD39 can hydrolyze both nucleoside triphosphates and diphosphates and has ecto-ATPase activity.

### 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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