

# CD39 Monoclonal Antibody (eBioA1 (A1)), FITC, eBioscience™

## Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioA1 (A1)
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11151149

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	17 Publications

## Product Specific Information

Description: The eBioA1 monoclonal antibody reacts with human CD39 also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1) or NTPDase. CD39 is an integral membrane protein with two transmembrane domains and exists as a homotetramer. It is the most prominent ectoenzyme of the immune system. The function of CD39 is to effectively remove toxic extracellular ATP by converting it to ADP or AMP. CD39 is thought to work together with CD73 to hydrolyze ATP and has been well characterized on Langerhans cells. Expression of CD39 was originally identified on activated lymphocytes. Expression is also found on a subset of T cells, B cells and dendritic cells as well as weak staining on monocytes and granulocytes.

Recently, CD39 and CD73 have been found on regulatory T cells (Treg). Expression of CD39 on Treg may facilitate their entry into inflamed areas where high levels of ATP are present. Expression of CD39 on Foxp3+CD4+ cells ranges from 25-45%.

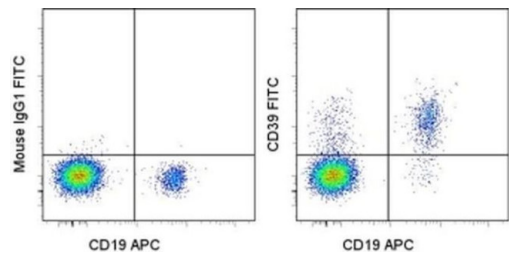
Applications Reported: This eBioA1 (A1) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioA1 (A1) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD39 Monoclonal Antibody (eBioA1 (A1)), FITC, eBioscience™



**CD39 Antibody (11-0399-42) in Flow**  
Staining of normal human peripheral blood cells with Anti-Human CD19 APC (Product # 17-0199-42) and Mouse IgG1 kappa Isotype Control FITC (Product # 11-4714-42) (left) or Anti-Human CD39 FITC (right). Cells in the lymphocyte gate were used for analysis.

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## Immunohistochemistry (1)

<p><b>The Journal of investigative dermatology</b></p> <p><b>Spatial and Single-Cell Transcriptional Profiling Identifies Functionally Distinct Human Dermal Fibroblast Subpopulations.</b></p> <p>"Published figure using CD39 monoclonal antibody (Product # 11-0399-42) in Flow Cytometry"</p> <p>Authors: Philippeos C, Telerman SB, Oulès B, Pisco AO, Shaw TJ, Elgueta R, Lombardi G, Driskell RR, Soldin M, Lynch MD, Watt FM</p>	<p><b>Year</b> 2018</p>
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## Immunohistochemistry (Frozen) (1)

<p><b>The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society</b></p> <p><b>Immunohistochemical markers for quantitative studies of neurons and glia in human neocortex.</b></p> <p>Authors: Lyck L, Dalmau I, Chemnitz J, Finsen B, Schrøder HD</p>	<p><b>Year</b> 2008</p>
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## Flow Cytometry (17)

<p><b>Journal of virology</b></p> <p><b>Impact of Early ARV Initiation on Relative Proportions of Effector and Regulatory CD8 T Cell in Mesenteric Lymph Nodes and Peripheral Blood During Acute SIV Infection of Rhesus Macaques.</b></p> <p>"11-0399-42 was used in Flow cytometry/Cell sorting to provide deeper insight into the dynamics of the CD8 T-cell compartment in gut mucosal immune surveillance during acute SIV infection and following early ARV initiation."</p> <p>Authors: Yero A, Farnos O, Clain J, Zghidi-Abouzid O, Rabezanahary H, Racine G, Estaquier J, Jenabian MA</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Rhesus monkey</p>
<p><b>eLife</b></p> <p><b>Pinpointing the tumor-specific T cells via TCR clusters.</b></p> <p>"Published figure using CD39 monoclonal antibody (Product # 11-0399-42) in Flow Cytometry"</p> <p>Authors: Goncharov MM, Bryushkova EA, Sharaev NI, Skatova VD, Baryshnikova AM, Sharonov GV, Karnaukhov V, Vakhitova MT, Samoylenko IV, Demidov LV, Lukyanov S, Chudakov DM, Serebrovskaya EO</p>	<p><b>Year</b> 2022</p>

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