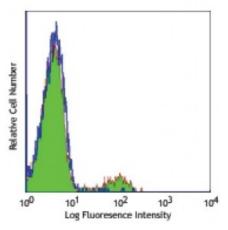
Product Data Sheet

Purified anti-human CD39

Catalog # / Size:	2241010 / 100 µg
Clone:	A1
Isotype:	Mouse IgG1, к
Immunogen:	PHA activated human lymphocytes
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



Human peripheral blood lymphocytes stained with purified A1, followed by anti-mouse IgG FITC

Applications:

Applications:	Other
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per 10 ⁶ cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	The A1 antibody binds to the human CD39 cell surface antigen and has been shown to block MHC independent target cell recognition by hapten-specific CTL. Additional reported applications (for the relevant formats) include: <i>in vitro</i> CD39 blockade3, immunofluorescence4, and immunohistochemistry ⁶ . The LEAF [™] purified antibody (Endotoxin <0.1 EU/microg, Azide-Free, 0.2 µm filtered) is recommended for blocking assays (<u>contact our custom solutions team</u>).
Application References:	 Aversa GG, <i>et al.</i> 1988. <i>Transplant. P.</i> 20:4952. Aversa GG, <i>et al.</i> 1989. <i>Transplant. P.</i> 21:34950. Borsellino G, <i>et al.</i> 2007. <i>Blood.</i> 110:1225. (Block) Stockl J, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:2724. (IF) Sestak K, <i>et al.</i> 2007. <i>Vet. Immunol. Immunopathol.</i> 119:21. Lyck L, <i>et al.</i> 2008. <i>J. Histochem. Cytochem.</i> 56:201. (IHC)
Description:	Human CD39 is an integral membrane protein with two transmembrane domains. It exists as a homotetramer. Expression of CD39 is found on activated lymphocytes, a subset of T cells and B cells, and dendritic cells with weak staining on monocytes and granulocytes. CD39 and CD73 have been found on regulatory T cells, specifically the effector/memory like T cells. CD39 can hydrolyze both nucleoside triphosphates and diphosphates. CD39 is the dominant ecto nucleotidase of vascular and placental trophoblastic tissues and appears to modulate the functional expression of type 2 purinergic (P2) G protein coupled receptors (GPCRs). CD39 has intrinsic ecto-ATPase activity. Expression of CD39 is induced on T cells and increased on B cells as a late activation antigen.

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