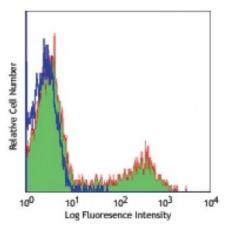
Product Data Sheet

Biotin anti-human CD39

Catalog # / Size:	2241020 / 100 μg
Clone:	A1
Isotype:	Mouse IgG1, к
Immunogen:	PHA activated human lymphocytes
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



Human peripheral blood lymphocytes stained with biotinylated A1, followed by Sav-PE

Applications:

Applications:	Flow Cytometry, Immunohistochemistry
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 \leq 2.0 microg per million cells in 100 microL volume. 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 ^{m} purified antibody (Endotoxin <0.1 EU/microg, Azide-Free, 0.2 µm filtered) is recommended for blocking assays (contact our custom solutions team).
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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