

Pacific Blue™ anti-human CD73 (Ecto-5'-nucleotidase) Antibody

Catalog# / Size	344011 / 25 tests 344012 / 100 tests
Clone	AD2
Regulatory Status	RUO
Workshop	V B-CD73.3
Other Names	Ecto-5'-nucleotidase, E.C3.1.3.5, L-VAP-2, NT5E, 5'-NT
Isotype	Mouse IgG1, κ
Description	CD73 is a 70 kD glycoposphatidylinositol (GPI)-linked 5'-nucleotidase, which is also known as ecto-5'-nucleotidase. It converts adenosine monophosphate (AMP) to adenosine. CD73 is expressed on subsets of T and B cells, mesenchymal stem cells, follicular dendritic cells, endothelial cells, and epithelial cells. It has been reported that CD73 costimulates T cell activation, and mediates adhesion of lymphocytes to follicular dendritic cells and endothelial cells.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence ³ . Clone AD2 has been noted to induce clustering and internalization of CD73 <i>in vivo</i> and inhibit metastasis in a murine breast cancer xenograft model ⁴ .
Application References	1. Nakamura T, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:6933. 2. Liao J, <i>et al.</i> 2011. <i>J Endod.</i> 37:1217. PubMed 3. Touboul C, <i>et al.</i> 2013. <i>J. Transl. Med.</i> 11:28. (IF)
(PubMed link indicates BioLegend citation)	

4. Terp MG, et al. 2013. *J Immunol.* 191: 4165-73 (Block)

Product Citations

1. Kudryavtsev I, et al. 2019. *Front Genet.* 10:604. [PubMed](#)

RRID

AB_2561747 (BioLegend Cat. No. 344011)
AB_2561748 (BioLegend Cat. No. 344012)

Antigen Details

Structure	GPI-linked 5'-nucleotidase, 70 kD
Distribution	Subsets of T cells and B cells, mesenchymal stem cells, follicular dendritic cells, endothelial cells, and epithelial cells
Function	Catalyses dephosphorylation of adenosine monophosphate, costimulates T cell activation, mediates adhesion of lymphocytes to follicular dendritic cells and endothelial cells
Cell Type	B cells, Dendritic cells, Endothelial cells, Epithelial cells, Mesenchymal Stem Cells, T cells, Tregs
Biology Area	Costimulatory Molecules, Immunology, Stem Cells
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none">1. Zola H, et al. 2007. <i>Leukocyte and stromal Cell Molecules:the CD Markers.</i> A John Wiley & Sons Inc, Publication.2. Airas L and Jalkanen S, et al. 1996. <i>Blood</i> 88:1755.3. Gutensohn W, et al. 1995. <i>Cell Immunol.</i> 161:213.4. Airas L, et al. 1995. <i>J. Exp. Med.</i> 182:1603.
Gene ID	4907

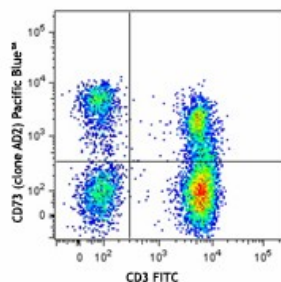
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

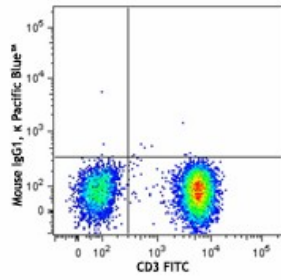
Other Formats

FITC anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 421™ anti-human CD73 (Ecto-5'-nucleotidase), Purified anti-human CD73 (Ecto-5'-nucleotidase), PE anti-human CD73 (Ecto-5'-nucleotidase), APC anti-human CD73 (Ecto-5'-nucleotidase), PE/Cyanine7 anti-human CD73 (Ecto-5'-nucleotidase), Pacific Blue™ anti-human CD73 (Ecto-5'-nucleotidase), PerCP/Cyanine5.5 anti-human CD73 (Ecto-5'-nucleotidase), Biotin anti-human CD73 (Ecto-5'-nucleotidase), PE/Dazzle™ 594 anti-human CD73 (Ecto-5'-nucleotidase), APC/Cyanine7 anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 605™ anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 711™ anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 785™ anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-A0577 anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-C0577 anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-B0577 anti-human CD73 (Ecto-5'-nucleotidase), APC/Fire™ 750 anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-D0577 anti-human CD73 (Ecto-5'-nucleotidase), Alexa Fluor® 700 anti-human CD73 (Ecto-5'-nucleotidase), Alexa Fluor® 647 anti-human CD73 (Ecto-5'-nucleotidase)

Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and CD73 (clone AD2) Pacific Blue™ (top) or mouse IgG1, κ Pacific Blue™ isotype control (bottom).



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