

Spark PLUS YG581™ anti-human CD73 (Ecto-5'-nucleotidase) Antibody

Catalog# / Size	344053 / 25 tests 344054 / 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
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 Spark PLUS YG581™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS YG581™ has a maximum excitation of 562 nm and a maximum emission of 581 nm.
Excitation Laser	Green Laser (532 nm)/Yellow-Green Laser (561 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) 4. Terp MG, <i>et al.</i> 2013. <i>J Immunol.</i> 191: 4165-73 (Block)
(PubMed link indicates BioLegend citation)	

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	1. Zola H, <i>et al.</i> 2007. <i>Leukocyte and stromal Cell Molecules:the CD Markers</i> . A John Wiley & Sons Inc, Publication. 2. Airas L and Jalkanen S, <i>et al.</i> 1996. <i>Blood</i> 88:1755. 3. Gutensohn W, <i>et al.</i> 1995. <i>Cell Immunol.</i> 161:213. 4. Airas L, <i>et al.</i> 1995. <i>J. Exp. Med.</i> 182:1603.
Gene ID	4907

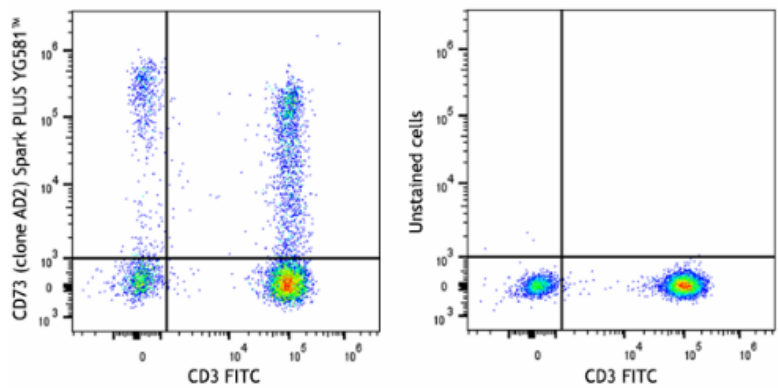
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

TotalSeq™-D0577 anti-human CD73 (Ecto-5'-nucleotidase), Alexa Fluor® 647 anti-human CD73 (Ecto-5'-nucleotidase), Spark Red™ 718 anti-hu CD73 (Ecto-5'-nucleotidase) (Flexi-Fluor™), PE/Dazzle™ 594 anti-human CD73 (Ecto-5'-nucleotidase), Alexa Fluor® 700 anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 711™ anti-human CD73 (Ecto-5'-nucleotidase), APC/Cyanine7 anti-human CD73 (Ecto-5'-nucleotidase), Purified anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 510™ anti-human CD73 (Ecto-5'-nucleotidase), PE anti-human CD73 (Ecto-5'-nucleotidase), PerCP/Cyanine5.5 anti-human CD73 (Ecto-5'-nucleotidase), FITC anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-A0577 anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-C0577 anti-human CD73 (Ecto-5'-nucleotidase), PerCP/Fire™ 806 anti-human CD73 (Ecto-5'-nucleotidase), PE/Fire™ 744 anti-human CD73 (Ecto-5'-nucleotidase), Spark PLUS V450™ anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 785™ anti-human CD73 (Ecto-5'-nucleotidase), Spark PLUS YG581™ anti-human CD73 (Ecto-5'-nucleotidase), Spark PLUS UV395™ anti-hu CD73 (Ecto-5'-nucleotidase) (Flexi-Fluor™), TotalSeq™-B0577 anti-human CD73 (Ecto-5'-nucleotidase), PerCP/Fire™ 780 anti-human CD73 (Ecto-5'-nucleotidase), Biotin anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 605™ anti-human CD73 (Ecto-5'-nucleotidase), APC anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 421™ anti-human CD73 (Ecto-5'-nucleotidase), PE/Cyanine7 anti-human CD73 (Ecto-5'-nucleotidase), Pacific Blue™ anti-human CD73 (Ecto-5'-nucleotidase), APC/Fire™ 750 anti-human CD73 (Ecto-5'-nucleotidase), Spark PLUS B550™ anti-human CD73 (Ecto-5'-nucleotidase), PE anti-human CD73, Spark YG™ 593 anti-hu CD73 (Ecto-5'-nucleotidase) (Flexi-Fluor™), Spark NIR™ 685 anti-hu CD73 (Ecto-5'-nucleotidase) (Flexi-Fluor™)

Product Data



Human peripheral blood cells were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD73 (Ecto-5'-nucleotidase) (clone AD2) Spark PLUS YG581™ (left) or stained with anti-human CD3 (clone UCHT1) FITC only (right). Data shown were gated on the lymphocyte population.

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587