

Spark PLUS V450™ anti-human CD73 (Ecto-5'-nucleotidase) Antibody

Catalog# / Size	344055 / 25 tests 344056 / 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 V450™ 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 V450™ has a maximum excitation of 405 nm and a maximum emission of 452 nm.
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

(PubMed link indicates BioLegend citation)

1. Nakamura T, *et al.* 1993. *J. Immunol.* 151:6933.
2. Liao J, *et al.* 2011. *J Endod.* 37:1217. [PubMed](#)
3. Touboul C, *et al.* 2013. *J. Transl. Med.* 11:28. (IF)
4. Terp MG, *et al.* 2013. *J Immunol.* 191: 4165-73 (Block)

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

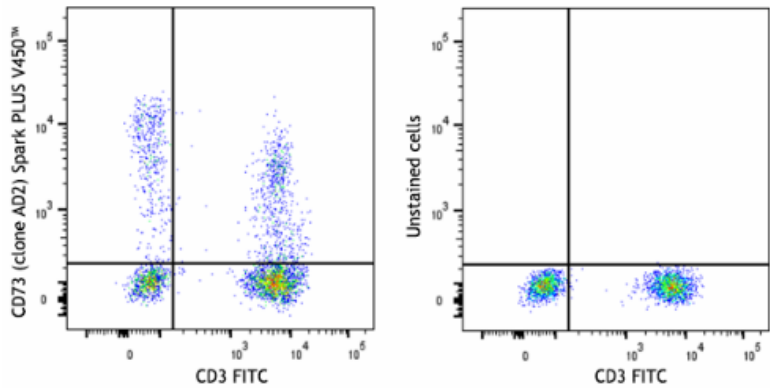
Related Protocols

- [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), PerCP/Fire™ 780 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), Biotin anti-human CD73 (Ecto-5'-nucleotidase), APC/Cyanine7 anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 711™ anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 605™ anti-human CD73 (Ecto-5'-nucleotidase), PE anti-human CD73 (Ecto-5'-nucleotidase), Purified anti-human CD73 (Ecto-5'-nucleotidase), APC anti-human CD73 (Ecto-5'-nucleotidase), FITC anti-human CD73 (Ecto-5'-nucleotidase), PerCP/Cyanine5.5 anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 421™ anti-human CD73 (Ecto-5'-nucleotidase), Alexa Fluor® 700 anti-human CD73 (Ecto-5'-nucleotidase), PerCP/Fire™ 806 anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 510™ anti-human CD73 (Ecto-5'-nucleotidase), PE/Fire™ 744 anti-human CD73 (Ecto-5'-nucleotidase), Spark PLUS V450™ 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™-A0577 anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-C0577 anti-human CD73 (Ecto-5'-nucleotidase), Brilliant Violet 785™ anti-human CD73 (Ecto-5'-nucleotidase), PE/Cyanine7 anti-human CD73 (Ecto-5'-nucleotidase), Pacific Blue™ 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™), APC/Fire™ 750 anti-human CD73 (Ecto-5'-nucleotidase), TotalSeq™-B0577 anti-human CD73 (Ecto-5'-nucleotidase)

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 V450™ (left) or stained with anti-human CD3 (clone UCHT1) FITC only (right). Data shown are gated on the lymphocyte population.

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