

## FITC anti-human CD73 (Ecto-5'-nucleotidase) Antibody

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| <b>Catalog# / Size</b>   | 344015 / 25 tests<br>344016 / 100 tests  |
| <b>Clone</b>             | AD2  |
| <b>Regulatory Status</b> | RUO  |
| <b>Workshop</b>          | V B-CD73.3   |
| <b>Other Names</b>       | Ecto-5'-nucleotidase, E.C3.1.3.5, L-VAP-2, NT5E, 5'-NT   |
| <b>Isotype</b>           | Mouse IgG1, κ  |
| <b>Description</b>       | 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

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| <b>Verified Reactivity</b>                        | Human   |
| <b>Reported Reactivity</b>                        | African Green, Baboon   |
| <b>Antibody Type</b>                              | Monoclonal  |
| <b>Host Species</b>                               | Mouse   |
| <b>Formulation</b>                                | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)   |
| <b>Preparation</b>                                | The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.   |
| <b>Concentration</b>                              | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)  |
| <b>Storage &amp; Handling</b>                     | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>   |
| <b>Application</b>                                | <a href="#">FC - Quality tested</a>   |
| <b>Recommended Usage</b>                          | Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.  |
| <b>Excitation Laser</b>                           | Blue Laser (488 nm)   |
| <b>Application Notes</b>                          | Additional reported applications (for the relevant formats) include: immunofluorescence <sup>3</sup> .<br><br>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 <sup>4</sup> .  |
| <b>Application References</b>                     | <ol style="list-style-type: none"> <li>1. Nakamura T, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:6933.</li> <li>2. Liao J, <i>et al.</i> 2011. <i>J Endod.</i> 37:1217. <a href="#">PubMed</a></li> <li>3. Touboul C, <i>et al.</i> 2013. <i>J. Transl. Med.</i> 11:28. (IF)</li> <li>4. Terp MG, <i>et al.</i> 2013. <i>J Immunol.</i> 191: 4165-73 (Block)</li> </ol> |
| <b>(PubMed link indicates BioLegend citation)</b> |   |

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|--------------------------|---|
| <b>Product Citations</b> | <ol style="list-style-type: none"> <li>1. Yusa K, <i>et al.</i> 2016. <i>Sci Rep.</i> 6:29462. <a href="#">PubMed</a></li> <li>2. Goodnough LH, <i>et al.</i> 2020. <i>JBMR Plus.</i> 4:e10398. <a href="#">PubMed</a></li> <li>3. Liu X, <i>et al.</i> 2020. <i>Exp Ther Med.</i> 1.258333333. <a href="#">PubMed</a></li> <li>4. Tu S, <i>et al.</i> 2020. <i>Cellular Signalling.</i> 73:109695. <a href="#">PubMed</a></li> <li>5. Vishnoi M, <i>et al.</i> 2018. <i>Cancer Res.</i> 78:5349. <a href="#">PubMed</a></li> </ol> |
|--------------------------|---|

6. Han J, *et al.* 2022. FEBS J. 289:417. [PubMed](#)
7. Yerneni SS, *et al.* 2021. MBio. 12:e0165721. [PubMed](#)
8. Morad G, *et al.* 2020. International Journal of Molecular Sciences. 21(11):3851. [PubMed](#)
9. Sun W, *et al.* 2019. Exp Ther Med. 17:2199. [PubMed](#)
10. Liu Y, *et al.* 2022. iScience. 25:104405. [PubMed](#)
11. Yan K, *et al.* 2022. iScience. 25:104822. [PubMed](#)
12. Gao P, *et al.* 2017. Cytotechnology. 69:751. [PubMed](#)
13. Yu C, *et al.* 2020. Sci Rep. 10:14521. [PubMed](#)
14. Ambrosi TH, *et al.* 2020. Aging Cell. 19:e13164. [PubMed](#)
15. Ayhan S, *et al.* 2021. Journal of Cell Science. 134(6):. [PubMed](#)
16. Zhang Q, *et al.* 2021. Bone Joint Res. 10:226. [PubMed](#)
17. Keshkar S, *et al.* 2021. Stem Cells Int. 8857457:2020. [PubMed](#)
18. Ludwig N, *et al.* 2020. Angiogenesis. 1.374305556. [PubMed](#)
19. Aomatsu E, *et al.* 2014. Sci Rep. 4:3652. [PubMed](#)
20. He Z, *et al.* 2020. J Exp Clin Cancer Res. 39:140. [PubMed](#)
21. Fei D, *et al.* 2021. Front Cell Dev Biol. 9:687258. [PubMed](#)
22. Pauken CM, *et al.* 2021. Cancers (Basel). 13:. [PubMed](#)
23. Festag J, *et al.* 2020. Mol Ther Nucleic Acids. 1.330555556. [PubMed](#)
24. Vishnoi M, *et al.* 2019. Mol Oncol. 13(9): 1913. [PubMed](#)
25. Boucher JM, *et al.* 2018. Cardiovasc Drugs Ther. 32:519. [PubMed](#)
26. Zheng C, *et al.* 2021. J Extracell Vesicles. 10:e12109. [PubMed](#)
27. Sprouse ML, *et al.* 2019. Int J Mol Sci. 20:8. [PubMed](#)

**RRID** AB\_2561808 (BioLegend Cat. No. 344015)  
 AB\_2561809 (BioLegend Cat. No. 344016)

## Antigen Details

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| <b>Structure</b>          | GPI-linked 5'-nucleotidase, 70 kD  |
| <b>Distribution</b>       | Subsets of T cells and B cells, mesenchymal stem cells, follicular dendritic cells, endothelial cells, and epithelial cells  |
| <b>Function</b>           | Catalyses dephosphorylation of adenosine monophosphate, costimulates T cell activation, mediates adhesion of lymphocytes to follicular dendritic cells and endothelial cells   |
| <b>Cell Type</b>          | B cells, Dendritic cells, Endothelial cells, Epithelial cells, Mesenchymal Stem Cells, T cells, Tregs  |
| <b>Biology Area</b>       | Costimulatory Molecules, Immunology, Stem Cells  |
| <b>Molecular Family</b>   | Adhesion Molecules, CD Molecules   |
| <b>Antigen References</b> | <ol style="list-style-type: none"> <li>1. Zola H, <i>et al.</i> 2007. <i>Leukocyte and stromal Cell Molecules:the CD Markers</i>. A John Wiley &amp; Sons Inc, Publication.</li> <li>2. Airas L and Jalkanen S, <i>et al.</i> 1996. <i>Blood</i> 88:1755.</li> <li>3. Gutensohn W, <i>et al.</i> 1995. <i>Cell Immunol.</i> 161:213.</li> <li>4. Airas L, <i>et al.</i> 1995. <i>J. Exp. Med.</i> 182:1603.</li> </ol> |
| <b>Gene ID</b>            | <a href="#">4907</a>   |

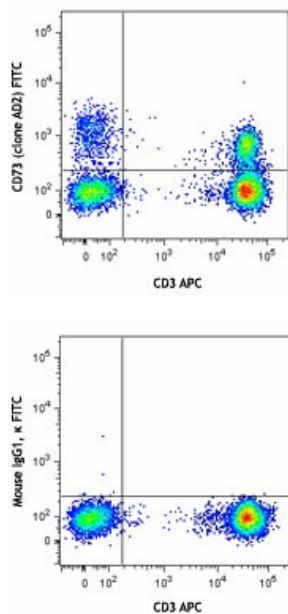
## Related Protocols

[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 APC and CD73 (clone AD2) FITC (top) or mouse IgG1, κ FITC isotype control (bottom).

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