# PerCP/Fire™ 806 anti-human CD73 (Ecto-5'-nucleotidase) Antibody

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| **Catalog# / Size** | 344047 / 25 tests<br>344048 / 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 glycophosphatidylinositol (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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| **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 PerCP/Fire™ 806 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.<br><br>* PerCP/Fire™ 806 has a maximum excitation of 478 nm and a maximum emission of 806 nm. |
| **Excitation Laser** | Blue Laser (488 nm) |
| **Application Notes** | Additional reported applications (for the relevant formats) include:immunofluorescence[3].<br><br>Clone AD2 has been noted to induce clustering and internalization of CD73 *in vivo* and inhibit metastasis in a murine breast cancer xenograft model[4]. |
| **Application References**<br><br>**(PubMed link indicates BioLegend citation)** | 1. Nakamura T, *et al.* 1993. *J. Immunol.* 151:6933.<br>2. Liao J, *et al.* 2011. *J Endod.* 37:1217. PubMed<br>3. Touboul C, *et al.* 2013. *J. Transl. Med.* 11:28. (IF)<br>4. Terp MG, *et al*. 2013. *J Immunol*. 191: 4165-73 (Block) |

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| **RRID** | AB_3662243 (BioLegend Cat. No. 344047)<br>AB_3662243 (BioLegend Cat. No. 344048) |

## Antigen Details

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

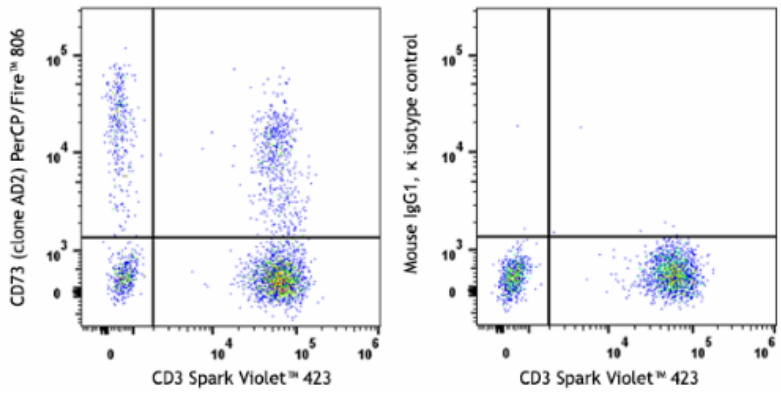
## Related Protocols

- 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), Brilliant Violet 510™ 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™), PerCP/Fire™ 806 anti-human CD73 (Ecto-5'-nucleotidase), Spark PLUS B550™ anti-human CD73 (Ecto-5'-nucleotidase)

## Product Data




Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Spark Violet™ 423 and anti-human CD73 (Ecto-5'-nucleotidase) (clone AD2) PerCP/Fire™ 806 (left) or mouse IgG1, κ PerCP/Fire™ 806 isotype control (right).

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