

Brilliant Violet 510™ anti-human CD73 (Ecto-5'-nucleotidase)

Catalog # / 2320215 / 25 tests
Size: 2320220 / 100 tests

Clone: AD2

Isotype: Mouse IgG1, κ

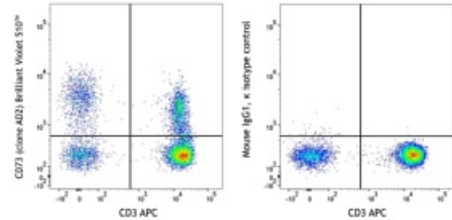
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Workshop Number: V B-CD73.3

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD3 APC and anti-human CD73 (Ecto-5'-nucleotidase) (clone AD2) Brilliant Violet 510™ (left) or mouse IgG1, κ Brilliant Violet 510™ isotype control (right).

Applications:

Applications: Flow Cytometry

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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence³.

Clone AD2 has been noted to induce clustering and internalization of CD73 *in vivo* and inhibit metastasis in a murine breast cancer xenograft model⁴.

Application
References:

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)
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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.

Antigen
References:

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