

**APC/Fire™ 750 anti-human CD73 (Ecto-5'-nucleotidase)**

**Catalog # / Size:** 2320180 / 100 tests  
2320175 / 25 tests

**Clone:** AD2

**Isotype:** Mouse IgG1, κ

**Immunogen:** Human Ig cocktail

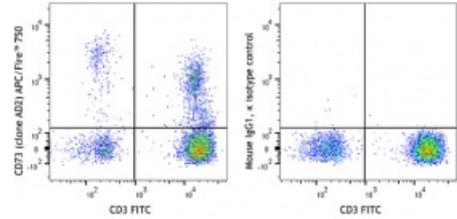
**Reactivity:** Human, Non-human primate

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

**Workshop Number:** V B-CD73.3

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD3 FITC and anti-human CD73 (Ecto-5'-nucleotidase) APC/Fire™ 750 (clone AD2) (left) or mouse IgG1, κ 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 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.

\* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunofluorescence<sup>3</sup>.

clone AD2 has been noted to induce clustering and internalization of CD73 *in vivo* and inhibit metastasis in a murine breast cancer xenograft model<sup>4</sup>.

- 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)

**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** 1. Zola H, et al. 2007. *Leukocyte and stromal Cell Molecules:the CD Markers*. A John Wiley & Sons Inc, Publication.
- References:** 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.