SONY

Product Data Sheet

Purified anti-human CD73 (Ecto-5'-nucleotidase)

Catalog # / Size: 2320010 / 100 µg

Clone: AD2

Isotype: Mouse IgG1, κ

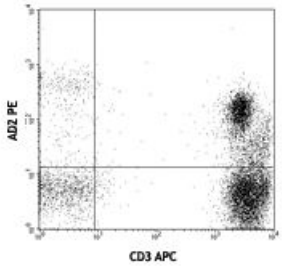
Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: V B-CD73.3

Concentration: 0.5



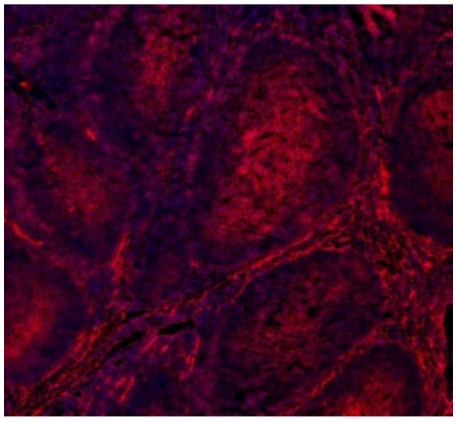
Human peripheral blood lymphocytes stained with AD2 PE and CD3 APC

Applications:

Applications: Flow Cytometry, Immunohistochemistry, Other

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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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



Frozen human tonsil section was fixed with 4% paraformaldehyde (PFA) for ten minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 µg/ml of purified anti-human CD73 (clone AD2) overnight at 4°C, followed by 2.5 µg/ml of Alexa Fluor® 594 anti-mouse IgG (clone Poly4053) (red) for two hours at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured by 10X objective.

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 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.

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.

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