

## anti-human CD73 PE-conjugated

PE-conjugated monoclonal antibody AD2 to human CD73

Cat-No: **21270734**

500 µl

**Clone:** AD2

**Specificity:** The mouse monoclonal antibody AD2 recognizes CD73, a 70 kDa GPI-anchored 5'-nucleotidase expressed predominantly on T and B cell subsets, follicular dendritic cells and endothelial cells.

**Isotype subclass:** Mouse IgG1

**Form:** The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

**Application:** Flow Cytometry

### References:

- \*) Rodriguez MW, Paquet AC, Yang YH, Erle DJ: Differential gene expression by integrin beta 7+ and beta 7- memory T helper cells. *BMC Immunol.* 2004 Jul 5;5:13.
- \*) Mokry J, Soukup T, Micuda S, Karbanova J, Visek B, Brackova E, Suchanek J, Bouchal J, Vokurkova D, Ivancakova R: Telomere attrition occurs during ex vivo expansion of human dental pulp stem cells. *J Biomed Biotechnol.* 2010;2010:673513.
- \*) Semenov OV, Koestenbauer S, Riegel M, Zech N, Zimmermann R, Zisch AH, Malek A: Multipotent mesenchymal stem cells from human placenta: critical parameters for isolation and maintenance of stemness after isolation. *Am J Obstet Gynecol.* 2010 Feb;202(2):193
- \*) Paquet-Fifield S, Schlüter H, Li A, Aitken T, Gangatirkar P, Blashki D, Koelmeyer R, Pouliot N, Palatsides M, Ellis S, Brouard N, Zannettino A, Saunders N, Thompson N, Li J, Kaur P: A role for pericytes as microenvironmental regulators of human skin tissue regeneration. *J Clin Invest.* 2009 Sep;119(9):2795-806.

**Background:** CD73 (ecto-5'-nucleotidase) is a 70 kDa glycoprotein anchored to the extracellular leaflet of the plasma membrane by GPI. This ecto-enzyme catalyzes dephosphorylation of AMP to adenosine. CD73 is expressed in various types of cells, such as epithelial, muscle, and endothelial cells, neutrophils, lymphocytes and fibroblasts. Inflammatory mediators support CD73 expression and its enzymatic activity, leading to the release of adenosine, which modulates inflammation through adenosine receptors. CD73 is expressed in a variety of lymphomas and leukemias, including ALL and CLL, whereas immunodeficient patients usually express low levels of this protein.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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