

30-2549: Anti-Human CD73 APC (Clone : AD2)

Clonality :	Monoclonal
Clone Name :	AD2
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	NT5E
Gene ID :	4907
Alternative Name :	ecto-5'nucleotidase, NT5E, E5NT, CALJA, NTE,5'-nucleotidase ecto
Isotype :	Mouse IgG1 kappa

Description

CD73 (ecto-5 \hat{A} '-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.

Specificity : The mouse monoclonal antibody AD2 recognizes CD73, a 70 kDa GPI-anchored 5 \hat{A} '-nucleotidase expressed predominantly on the surface of T and B cell subsets, follicular dendritic cells and endothelial cells.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 \hat{A} µl reagent / 100 \hat{A} µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

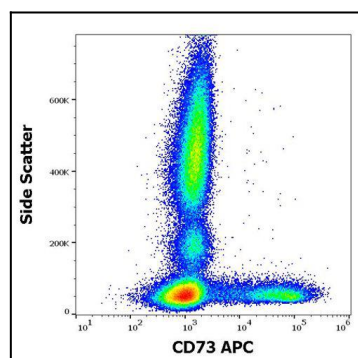


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD73 (AD2) APC antibody (10 \hat{A} µl reagent / 100 \hat{A} µl of peripheral whole blood).

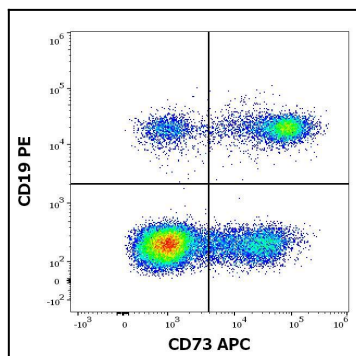


Figure 2 : Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD73 (AD2) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD19 (LT19) PE antibody(20 μ l reagent / 100 μ l of peripheral whole blood).

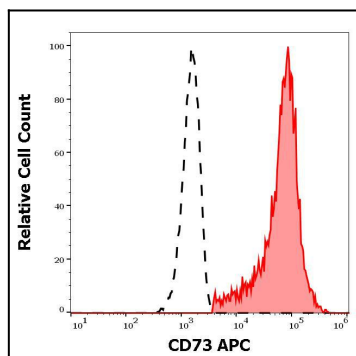


Figure 3 :Separation of human CD73 positive CD19 positive B cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD73 (AD2) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).