

1F-675-T100

## **Monoclonal Antibody to CD73** Fluorescein (FITC) conjugated (100 tests)

Clone: AD2

Isotype: Mouse IqG1

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.

**Regulatory Status: RUO** 

**Species Reactivity:** Human

**Preparation:** The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under

optimum conditions. The reagent is free of unconjugated FITC and adjusted for

direct use. No reconstitution is necessary.

**Storage Buffer:** The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

The reagent is designed for Flow Cytometry analysis of human blood cells using 4  $\mu$ l reagent / 100  $\mu$ l of whole blood or 10 $^6$  cells in a suspension. Usage:

The content of a vial (0.4 ml) is sufficient for 100 tests.

**Expiration:** See vial label

Lot Number: See vial label

**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.



## PRODUCT DATA SHEET

## References:

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\*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

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