

Datasheet for ABIN1176840
anti-CD73 antibody (PE)[Go to Product page](#)

4 Images

9 Publications

Overview

Quantity:	100 tests
Target:	CD73 (NT5E)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD73 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	pre-B leukemia cells
Clone:	AD2
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody AD2 recognizes CD73, a 70 kDa GPI-anchored 5'-nucleotidase expressed predominantly on the surface of T and B cell subsets, follicular dendritic cells and endothelial cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD73 (NT5E)
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Target Details

Alternative Name:	CD73 (NT5E Products)
Background:	5'-nucleotidase ecto,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.,ecto-5' nucleotidase, NT5E, E5NT, CALJA, NTE
Gene ID:	4907
UniProt:	P21589
Pathways:	Synaptic Membrane , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Goričan, Gole, Potočnik: "Head and Neck Cancer Stem Cell-Enriched Spheroid Model for Anticancer Compound Screening." in: **Cells**, Vol. 9, Issue 7, (2020) ([PubMed](#)).

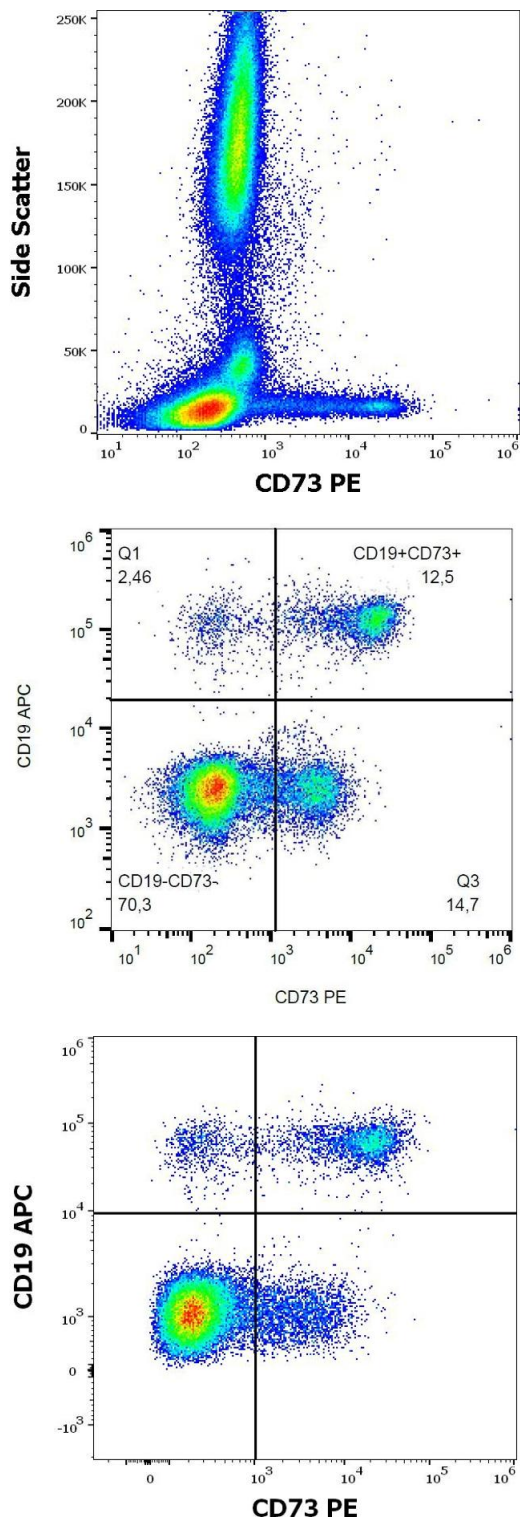
Semenov, Koestenbauer, Riegel, Zech, Zimmermann, Zisch, Malek: "Multipotent mesenchymal stem cells from human placenta: critical parameters for isolation and maintenance of stemness after isolation." in: **American journal of obstetrics and gynecology**, Vol. 202, Issue 2, pp. 193.e1-193.e13, (2010) ([PubMed](#)).

Mokry, Soukup, Micuda, Karbanova, Visek, Brčakova, Suchanek, Bouchal, Vokurkova, Ivancakova: "Telomere attrition occurs during ex vivo expansion of human dental pulp stem cells." in: **Journal of biomedicine & biotechnology**, Vol. 2010, pp. 673513, (2010) ([PubMed](#)).

Paquet-Fifield, Schlüter, Li, Aitken, Gangatirkar, Blashki, Koelmeyer, Pouliot, Palatsides, Ellis, Brouard, Zannettino, Saunders, Thompson, Li, Kaur: "A role for pericytes as microenvironmental regulators of human skin tissue regeneration." in: **The Journal of clinical investigation**, Vol. 119, Issue 9, pp. 2795-806, (2009) ([PubMed](#)).

Kögler, Sensken, Airey, Trapp, Müschen, Feldhahn, Liedtke, Sorg, Fischer, Rosenbaum, Greschat, Knipper, Bender, Degistirici, Gao, Caplan, Colletti, Almeida-Porada, Müller, Zanjani, Wernet: "A new human somatic stem cell from placental cord blood with intrinsic pluripotent differentiation potential." in: **The Journal of experimental medicine**, Vol. 200, Issue 2, pp. 123-35, (2004) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD73 (AD2) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

Flow Cytometry

Image 2. Surface staining (flow cytometry) of human peripheral blood with anti-human CD73 (AD2) PE.

Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD73 (AD2) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1176840.