

A Reliable Research Partner in Life Science and Medicine

PE/Elab Fluor® 594 Anti-Human CD74 Antibody[LN2]

Catalog Number: E-AB-F1072P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human Host Mouse

Isotype Mouse IgG1, κ

Clone No. LN2

Isotype Control

PE/Elab Fluor® 594 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792P]

Conjugation PE/Elab Fluor® 594

Conjugation Information PE/Elab Fluor[®] 594 is designed to be excited by the blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 620 nm

(e.g., a 610/20 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

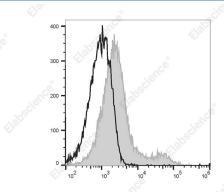
Applications Recommended usage

FCM Each lot of this antibody is quality control tested by flow cytometric analysis. The amount

of the reagent is suggested to be used 5 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for

individual use.

Data



Human peripheral blood lymphocytes are stained with

PE/Elab Fluor[®] 594 Anti-Human CD74 Antibody[LN2] (filled gray histogram) or PE/Elab Fluor[®] 594 Mouse IgG1, κ Isotype Control (empty black histogram).

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names CD74;DHLAG;HLA class II histocompatibility antigen gamma chain;la antigen-

associated invariant chain;li;p33

Uniprot ID P04233

For Research Use Only

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Gene ID Background 972

CD74 is a type II transmembrane glycoprotein also known as MHC class II associated invariant chain, invariant chain, li, MHC class II chaperone, and MIF receptor. CD74 exists in four isoforms with molecular masses of 33, 35, 41, and 43 kD, depending on genetic splicing. CD74 is primarily expressed on antigen presenting cells, including B cells, monocytes/macrophages, dendritic cells, and Langerhans cells. It is also expressed by activated T cells and activated endothelial and epithelial cells as well as carcinomas of lung, renal, gastric and thymic origin. The primary function of CD74 is intracellular sorting of MHC class II molecules and regulation of exogenous peptide loading onto MHC class II. It is also involved in the modulation of B cell differentiation and positive selection of CD4+ T cells. It has been reported that CD74 binds MIF (macrophage migration inhibitory factor) and signals through CD44 to regulate innate and adaptive immunity. It is also reported that H. pylori infection occurs through urease B binding of CD74 on gastric epithelial cells, inducing gastric epithelial cell apoptosis, NF-κB activation, and IL-8 production.

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