

Purified Anti-Human CD74 Antibody[LL1]

catalog number: E-AB-F14210P

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

Description

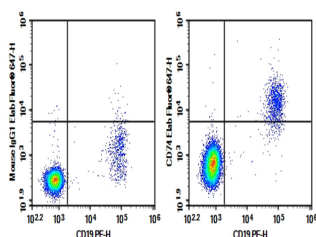
| | |
|---------------------|---|
| Reactivity | Human |
| Immunogen | Recombinant Human CD74 protein |
| Host | Mouse |
| Isotype | Mouse IgG1, κ |
| Clone | LL1 |
| Purification | >98%, Protein A/G purified |
| Buffer | Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling. |

Applications

Recommended Dilution

| | |
|------------|---|
| FCM | 2 $\mu\text{g/mL}$ (0.5×10^6 - 1×10^6 cells) |
| WB | 1:200-1:500 |

Data



Human peripheral blood lymphocytes were stained with 0.2 μg Purified Anti-Human CD74 Antibody[LL1] (Right) and 0.2 μg Mouse IgG1, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Mouse IgG Secondary Antibody, then anti-Human CD19 PE-conjugated Monoclonal Antibody.

Western blot with Purified Anti-Human CD74 antibody[LL1] at dilution of 1:1000. Lane 1: Raji cell lysate.

Observed-MW:30-35 kDa

Calculated-MW:34 kDa

Preparation & Storage

| | |
|-----------------|--|
| Storage | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. |
| Shipping | Ice bag |

Background

For Research Use Only

CD74 is a type II transmembrane glycoprotein also known as MHC class II associated invariant chain, invariant chain, Ii, 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- κ B activation, and IL-8 production.

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