

## FITC anti-human CD74

Catalog No: #26684

Package Size: #26684-1 25 tests #26684-2 50 tests

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## Description

|                    |   |
|--------------------|---|
| Product Name       | FITC anti-human CD74  |
| Host Species       | Mouse   |
| Clonality          | Monoclonal  |
| Applications       | FC  |
| Species Reactivity | Human   |
| Immunogen Type     | Mouse IgG1, $\kappa$  |
| Conjugates         | FITC  |
| Formulation        | Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide and 0.2% (w/v) BSA |
| Storage            | Store at 4°C.DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.                                 |

## Application Details

10  $\mu$ l/test

## Background

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<sup>+</sup> 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- $\kappa$ B activation, and IL-8 production.

Note: This product is for in vitro research use only