# Recombinant CD74 Monoclonal Antibody

**catalog number:** **AN301823L**

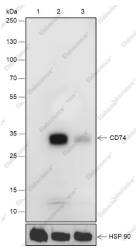
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human |
| **Immunogen** | Recombinant human CD74 fragment |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C321445 |
| **Purification** | Protein A purified |
| **Buffer** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:500-1:2000 |
| **IHC** | 1:2000-1:5000 |
| **FCM** | 1:50 |

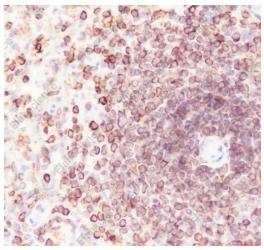
## Data



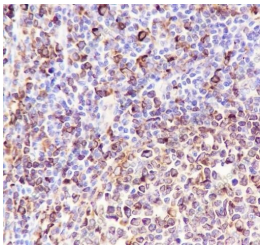

Western Blot with CD74 Monoclonal Antibody at dilution of 1:2000. Lane 1: Jurkat (Negative control), Lane 2: Raji, Lane 3: Ramos

**Observed-MW:34 kDa**

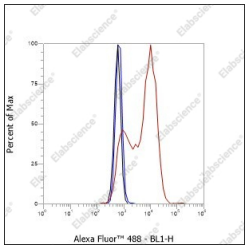
**Calculated-MW:34 kDa**



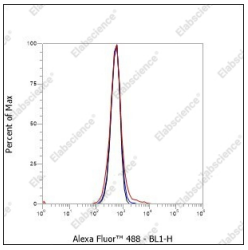
Immunohistochemistry of paraffin-embedded Human spleen using CD74 Monoclonal Antibody at dilution of 1:5000.



Immunohistochemistry of paraffin-embedded Human tonsil using CD74 Monoclonal Antibody at dilution of 1:2000.




Flow cytometric analysis of human CD74 expression on Ramos cells. Cells were stained with purified anti-Human CD74, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.




Flow cytometric analysis of human CD74 expression on Jurkat(Negative cell line) cells. Cells were stained with purified anti-Human CD74, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

## Preparation & Storage

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|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | Ice bag |

## Background

CD74, also known as the MHC Class II-associated invariant chain (Ii), is a type II transmembrane glycoprotein that plays a critical role in the antigen presentation process as a chaperone of MHC Class II proteins. It is expressed at high levels on B cells and to a lesser extent on numerous antigen presenting cell (APC) types including dendritic cells, Langerhans cells, monocytes, and macrophages as well as non-traditional APCs such as epithelial cells. CD74 was initially identified for its ability to regulate the folding and intracellular trafficking of newly synthesized MHC Class II molecules. Following expression, CD74 self-assembles as a trimer that serves as a scaffold for the assembly of MHC Class II molecules. Through this interaction, CD74 blocks the peptide binding cleft of MHC Class II molecules and prevents their premature association with endogenous polypeptides. Binding to CD74 also facilitates the translocation of MHC Class II molecules from the endoplasmic reticulum to the endocytic compartments during antigen presentation.


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