

# CD74 Monoclonal Antibody (5-329), Super Bright™ 436, eBioscience™

Product Details	
Size	25 Tests
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	5-329
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784816

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	1 Publication

## Product Specific Information

**Description:** This 5-329 monoclonal antibody recognizes human CD74, also known as the MHC Class II-associated invariant chain. A 33-43 kDa nonpolymorphic type II membrane protein, CD74 is highly expressed on B cells and subsets of activated T cells, Langerhans cells, dendritic cells, and epithelial cells. Monocytes and macrophages also express CD74, but at lower levels. CD74 acts as a chaperone of MHC Class II (HLA-DR) proteins, promoting their translocation from the ER to endocytic compartments during antigen presentation. Activation of NFkappaB and ERK has been shown following CD74 interaction with CD44 and binding to the proinflammatory cytokine macrophage migration-inhibitory factor (MIF). CD74 also plays a role in the maturation of follicular B-cells and accumulation of marginal zone B-cells. CD74 has also been demonstrated to interact with CXCR2 and CXCR4.

**Applications Reported:** This 5-329 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 5-329 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells /test.

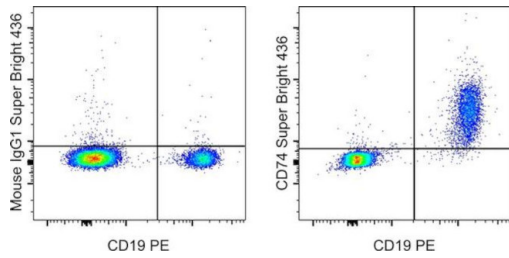
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD74 Monoclonal Antibody (5-329), Super Bright™ 436, eBioscience™



### CD74 Antibody (62-0748-41) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, PE (Product # 12-0119-42) and Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (left) or CD74 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

## 1 Reference

### Flow Cytometry (1)

FEBS letters

#### A functional heteromeric MIF receptor formed by CD74 and CXCR4.

"Published figure using CD74 monoclonal antibody (Product # 62-0748-42) in Flow Cytometry"

Authors: Schwartz V, Lue H, Kraemer S, Korbil J, Krohn R, Ohl K, Bucala R, Weber C, Bernhagen J

Year  
2009

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