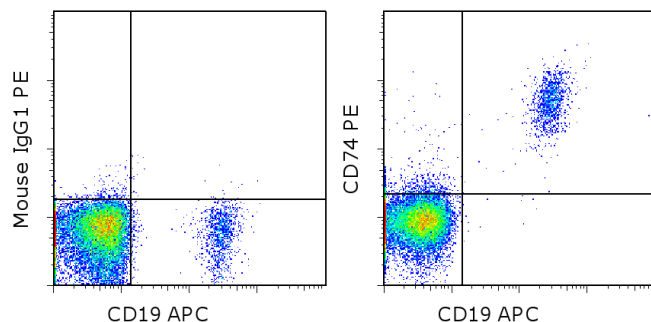


## Anti-Human CD74 PE

**Catalog Number:** 12-0748

**Also known as:** Invariant chain, MHC Class II-associated, Ia-gamma, Receptor for Macrophage Migration Inhibitory Factor

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD74 PE (cat. 12-0748) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD74 PE (right). Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human CD74 PE

**Catalog Number:** 12-0748

**Clone:** 5-329

**Concentration:** 5 uL (0.125 ug)/test

**Host/Isotype:** Mouse IgG1



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.



**Batch Code:** Refer to vial



**Use By:** Refer to vial

### 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 NFκB 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-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

### References

Schwartz V, Lue H, Kraemer S, Korbil J, Krohn R, Ohl K, Bucala R, Weber C, Bernhagen J. A functional heteromeric MIF receptor formed by CD74 and CXCR4. *FEBS Lett.* 2009 Sep 3;583(17):2749-57.

Becker-Herman S, Arie G, Medvedovsky H, Kerem A, Shachar I. CD74 is a member of the regulated intramembrane proteolysis-processed protein family. *Mol Biol Cell.* 2005 Nov;16(11):5061-9.

Lamb CA, Yewdell JW, Bennink JR, Cresswell P. Invariant chain targets HLA class II molecules to acidic endosomes

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containing internalized influenza virus. Proc Natl Acad Sci U S A. 1991 Jul 15;88(14):5998-6002.

### Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

17-0199 Anti-Human CD19 APC (HIB19)