

## Monoclonal Antibody to CD74 - FITC

<b>Alternate names:</b>	DHLA3, HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, Ia antigen-associated invariant chain, p33
<b>Catalog No.:</b>	AM01081FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1mg/ml
<b>Background:</b>	The CD74 molecule plays a critical role in the presentation of peptides, by the MHC class II antigens, to CD4 positive lymphocytes. CD74 is expressed on MHC class II positive cells including B cells, a subset of activated T cells, monocytes, dendritic cells and by various types of carcinoma. Expression of CD74 is primarily intracellular with moderate expression at the cell surface of B cells and monocytes.
<b>Uniprot ID:</b>	<a href="#">P04233</a>
<b>NCBI:</b>	<a href="#">NP_001020329.1</a>
<b>GeneID:</b>	<a href="#">972</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	Bu45
<b>Immunogen:</b>	B lymphoblastoid cell line HFB1.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide (NaN <sub>3</sub> ), 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: 1/5; 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD74, a type II transmembrane protein, which is also known as the MHC class II associated invariant chain. The Bu45 antibody recognises 33, 35 and 41 kD isoforms of CD74. The Bu45 antibody binds to an epitope within the extracytoplasmic domain of the CD74 molecule, which is distal from the C-terminus. *Membrane permeabilisation may enhance CD74 staining on monocytes but is not required when staining lymphocytes. <b>Species:</b> Human. Other species not tested.

- Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
- Caution:** (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
- General Readings:** 1. Wraight CJ, van Endert P, Möller P, Lipp J, Ling NR, MacLennan IC, et al. Human major histocompatibility complex class II invariant chain is expressed on the cell surface. J Biol Chem. 1990 Apr 5;265(10):5787-92. PubMed PMID: 1690714.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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