

Datasheet: MCA2502F BATCH NUMBER 159573

Description:	MOUSE ANTI HUMAN CD74:FITC		
Specificity:	CD74		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	Bu45		
lsotype:	lgG1		
Quantity:	0.1 mg		

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .					
	· · · · · ·		ο	Not Determined	Suggested Dilution	
	Flow Cytometry (1)	-			Neat - 1/5	
	Where this product has necessarily exclude its a guide only. It is recor system using appropria (1) Membrane permea the use of Leucopern	use in such pro nmended that th ate negative/pos abilisation may	ecedures ne user ative con enhan	s. Suggested workin titrates the product f ntrols. ce CD74 staining. E	g dilutions are given as or use in their own Bio-Rad recommend	
Target Species	Human					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Max	(nm) E	mission Max (nm)		
	FITC	490		525		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide (I 1% Bovine Serum A	0,				

Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
Immunogen	B lymphoblastoid cell line HFB1.		
External Database Links	UniProt: <u>P04233</u> <u>Related reagents</u> Entrez Gene: <u>972</u> CD74 <u>Related reagents</u>		
Synonyms	DHLAG		
RRID	AB_844513		
Fusion Partners	Spleen cells from immunised mice were fused with cells of the Ag8.653 myeloma cell line.		
Specificity	 Mouse anti Human CD74 antibody, clone Bu45 recognizes human CD74, a type II transmembrane protein, also known as the MHC class II associated invariant chain. The Bu45 antibody recognizes 33, 35 and 41 kDa isoforms of CD74. 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. Mouse anti Human CD74 antibody, clone Bu45 binds to an epitope within the extracytoplasmic domain of the CD74 molecule, which is distal from the C-terminus. 		
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.		
References	 Wraight, C.J. <i>et al.</i> (1990) Human major histocompatibility complex class II invariant chain is expressed on the cell surface. J Biol Chem. 265 (10): 5787-92. Beswick, E.J. <i>et al.</i> (2005) <i>Helicobacter pylori</i> binds to CD74 on gastric epithelial cells and stimulates interleukin-8 production. Infect Immun. 73: 2736-43. Lapaque, N. <i>et al.</i> (2009) The HLA-DRalpha chain is modified by polyubiquitination. J Biol Chem. 284: 7007-16. van Bergen, J. <i>et al.</i> (1997) Efficient loading of HLA-DR with a T helper epitope by genetic exchange of CLIP. Proc Natl Acad Sci U S A. 94: 7499-502. Barrera, C.A. <i>et al.</i> (2005) Polarized expression of CD74 by gastric epithelial cells. J Histochem Cytochem. 53: 1481-9. Beswick, E.J. <i>et al.</i> (2006) The <i>Helicobacter pylori</i> urease B subunit binds to CD74 on gastric epithelial cells and induces NF-kappaB activation and interleukin-8 production. Infect Immun. 74: 1148-55. Goldenberg, D.M. <i>et al.</i> (2019) Subcutaneous administration of anti-CD74 antibody for systemic lupus erythematosus <u>US patent US 20170266281 A1</u> 		

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended. This product is photose protected from light.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2502F 10041			
Regulatory	For research purposes only			

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

Recommended Useful Reagents

LEUCOPERM (BUF09) HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-	rad.com	Email: antibody_sales_uk@bio	o-rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M390201:210825'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint