

	Monoclonal Mouse Anti-Human CD54, ICAM-1/FITC Clone 6.5B5 Code No. F 7143 For research use only. Not for use in diagnostic procedures.				
Recommended use	Monoclonal Mouse Anti-Human CD54, of cells expressing CD54.	noclonal Mouse Anti-Human CD54, ICAM-1/FITC, is recommended for use in flow cytometry for identification sells expressing CD54.			
Introduction	The CD54 antigen is a single chain intercellular adhesion molecule-1 (ICA ICAM-1 is LFA-1 (leucocyte function a although the degree of expression by expression of ICAM-1 is up-regulated up as interleukin-1, tumour necrosis factor rejecting kidneys the antibody stains all capillaries, large vessels and mesangium	ECD54 antigen is a single chain glycoprotein with a molecular mass of 90 kDa (1). It is the human rcellular adhesion molecule-1 (ICAM-1) belonging to the immunoglobulin supergene family. The ligand for M-1 is LFA-1 (leucocyte function associated-1 protein) (2). ICAM-1 is widely expressed on many cell types, ough the degree of expression by unstimulated resting cells varies. As a cellular activation antigen the ression of ICAM-1 is up-regulated upon cell activation, being induced particularly in response to cytokines such interleukin-1, tumour necrosis factor and interferon- γ (2-4). ICAM-1 might be a receptor for rhinovirus (5). In acting kidneys the antibody stains all infiltrating cells strongly as well as glomerulus epithelium, endothelium on illaries, large vessels and mesangium (6).			
Reagent provided	Purified monoclonal mouse antibody conjugated with fluorescein isothiocyanate isomer 1 (FITC). The conjugate is provided in liquid form in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaN ₃ , pH 7.2. Each vial contains 100 tests (10 μ L of conjugate for up to 10 ⁶ leucocytes from normal human peripheral blood).				
	<u>Clone:</u> 6.5B5 (3). <u>Isotype:</u> IgG1, kappa.	Conjugate concentration mg/L: See label on vial.			
Immunogen	TNF-activated human umbilical vein en	IF-activated human umbilical vein endothelial cells.			
Specificity	Anti-CD54, 6.5B5, was included in the Sixth International Workshop and Conference on Human Leucocyte Differentiation Antigens, and studies by a number of laboratories confirmed its reactivity with the CD54 antigen (7).				
	Anti-CD54, 6.5B5, reacts with domain 1 (nearest the N-terminal of the molecule) of ICAM-1. It is mainly expressed on leucocytes, on epithelial and on endothelial cells (3, 4, 8-10).				
Precautions	 The device is not intended for clinical use including diagnosis, prognosis, and monitoring of a disease state, and it must not be used in conjunction with patient records or treatment. This product contains sodium azide (NaN₃), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing. As with any product derived from biological sources, proper handling procedures should be used. 				
Storage	Store in the dark at 2-8 °C. Do not use after expiration date stamped on vial. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the product is suspected, contact our Technical Services.				
Staining procedure	1. Transfer 100 µL of anticoagulated	(EDTA) blood to a 12 x 75 mm polystyrene test tube.			
	 Add 10 μL of F 7143 and mix ger should be determined by the indiv 	tly with a vortex mixer. The 10 μ L is a guideline only; the optimal volume <i>i</i> dual laboratory.			
	3. The recommended negative cont	rol is a non-reactive FITC-conjugated antibody of the same isotype.			
	4. Incubate in the dark at 4 °C for 30) minutes or at room temperature (20-25 °C) for 15-30 minutes.			
	 Add 100 µL of Dako Uti-Lyse™ (with a vortex mixer. Incubate for 2 	code Nos. S 3325 or S 3350) Reagent A to each sample and mix gently 0 minutes at room temperature in the dark.			
	 Add 1 mL of Dako Uti-Lyse™ Re 10 minutes at room temperature follow the recommendations for the 	agent B to each sample and mix gently with a vortex mixer. Incubate for in the dark. If another lysing reagent is used in steps 5 and 6, please nat reagent.			
	 Centrifuge at 300 x g for 5 minut 50 µL of fluid. 	es. Gently aspirate the supernatant and discard it leaving approximately			
	 Add 2 mL 0.01 mol/L PBS contain mixer. 	ning 2% bovine serum albumin and resuspend the cells by using a vortex			
	9. Repeat step 7.				
	 Resuspend pellet in an appropria paraformaldehyde (fixative) if san 	te fluid for flow cytometry, e.g. 0.3 mL PBS. The PBS should contain 1% nples are not analysed the same day.			
	11. Analyse on a flow cytometer or hours after lysis.	store at 2-8 $^{\circ}\mathrm{C}$ in the dark until analysis. Samples can be run up to 24			
	Optimal conditions may vary depending on specimen and preparation method, and should be determined by each individual laboratory. It is recommended to include a suitable positive and negative control sample with				

each run for reagent and preparation control. Note that fluorochrome conjugates are light sensitive, and samples should be protected from light during the staining procedure and until the analysis.

References

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Explanation of symbols

REF	Catalogue number	类	Keep away from sunlight (consult storage section)	***	Manufacturer
[]î	Consult instructions for use	LOT	Batch code	EC REP	Authorized representative in the European Community
2°C-	Temperature limitation		Use by		



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