

# Rat ICAM-1/CD54 Fluorescein-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 141032

Catalog Number: FAB5831F

100 TESTS

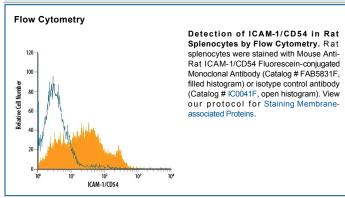
DESCRIPTION			
Species Reactivity	Rat		
Specificity	Detects rat ICAM-1/CD54 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) DCC, recombinant human (rh) ICAM-1, rmICAM-1, rmICAM-2, rhICAM-3, rmICAM-5, rmMAdCAM-1, rhCD31 or rmVCAM-1 is observed.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 141032		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat ICAM-1/CD54 Gln28-Thr493 (predicted) Accession # Q00238		
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.		

#### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

#### DATA



## PREPARATION AND STORAGE

**Shipping**The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze

• 12 months from date of receipt, 2 to 8 °C as supplied.

### BACKGROUND

Intercellular Adhesion Molecule-1 (ICAM-1, CD54), binds the leukocyte integrins LFA-1 (αL/β2 or CD11a/CD18) and Mac-1 (αM/β2 or CD11b/CD18). ICAM-1 expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFN-γ, TNF-α, IL-1β, and LPS. Within the extracellular domain, rat ICAM-1 shares 53% and 78% amino acid sequence identity with human and mouse ICAM-1, respectively. Soluble ICAM-1 is found in a biologically active form in serum, probably as a result of proteolytic cleavage from the cell surface, and is elevated in patients with various inflammatory syndromes such as septic shock, leukocyte adhesion deficiency syndrome (LAD), cancer, and transplantation.

## References:

- 1. Pigott, R. and C. Power (1993) in The Adhesion Molecule Facts Book, p. 74. Academic Press.
- 2. Siu, G. et al. (1989) J. Immunol. 143:3813.
- 3. Ballantyne, C.M. et al. (1989) Nuc. Acid. Res. 17:5853.

