

## CD54

**Product:** Anti-human ICAM-1 Monoclonal Antibody.

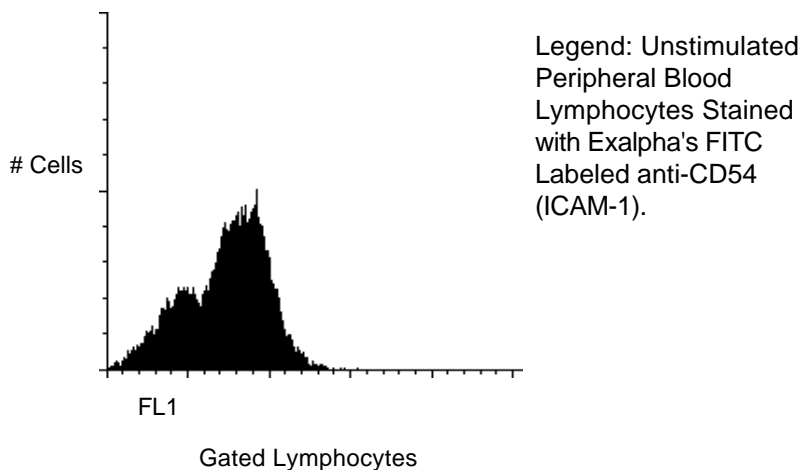
**Description:** CD54, M.W. 90,000, antigen is the Intercellular Adhesion Molecule-1 (ICAM-1) and is the ligand for LFA-1 mediated adhesion. CD54 is weakly expressed on peripheral blood leukocytes. Upon activation the antigen is expressed strongly on B cells, T cells, macrophages and granulocytes. ICAM-1 is also inducible on endothelial cells, epithelial cells and fibroblasts.

**Isotype:** Mouse IgG2b kappa.

**Clone:** D3.6

**Applications:** Study of T cell/monocyte adhesion; Study of B cell adhesion; Study of cell adhesion molecules; Study of the rhinovirus.

**Use:** PBMC: Add 10  $\mu$ l of MAB/10<sup>6</sup> PBMC in 100  $\mu$ l PBS. Mix gently and incubate for 15 minutes at 20<sup>o</sup> to 8<sup>o</sup> C. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. WHOLE BLOOD: Add 10  $\mu$ l of MAB/100  $\mu$ l of whole blood. Mix gently and incubate for 15 minutes at room temperature 20<sup>o</sup> C. Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.



**Storage:** Unconjugated antibodies supplied as a 1 mg/ml solution PBS and 0.08% sodium azide and should be stored at -20<sup>o</sup>C. Conjugated antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier and should be stored at 4-8<sup>o</sup>C. Conjugated antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	Pure	100 $\mu$ g	0541
	FITC	100 Test	0542
	Biotin	100 Test	0543
	PE	100 Test	0544

**For research use only. Not for use in human diagnostics or therapeutics.**

## REFERENCES:

1. ICAM-1 a ligand for LFA-1 dependent adhesion of B,T and myeloid cells. Makgoba, M.W., Sanders, M.E., Ginther, Luce, G.E., Dustin, M.L., Springer, T.A., Clark, E.A., Mannoni, P., Shaw, S., Nature, 1988;331:86.
2. Supergene families meet in the immune system. Dustin, M.L., Staunton, D.E., and Springer, T.A., Immunol. Today. 1988;9:213.
3. Functional cloning of ICAM-2, a cell adhesion ligand for LFA-1 homologous to ICAM-1. Staunton, D.E., Dustin, M.L., and Springer, T.A., Nature. 1989;339:61.
4. Leukocytes adhesion to cells. Molecular basis, Physiological Relevance and Abnormalities. Patarroyo, M., and Makgoba, M.W., Scand. J. Immunol. 1989;30:129.
5. A soluble form of intercellular adhesion molecule-1 inhibits rhinovirus infection. Marlin SD, Staunton DE, Springer TA, Stratowa C, Sommergruber, W., and Merluzzi, V.J., Nature. 1990;44:70.

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Exalpha Biologicals, Inc., 86 Rosedale Rd. Watertown, MA 02472  
Tel: 800.395.1137 or 617.924.3400, Fax: 866.924.5100 or 617.924.5100, Web: [www.exalpha.com](http://www.exalpha.com)