

# ICAM-1 Monoclonal Antibody (15.2), FITC

Catalog NumberA27073

Product data sheet

Details		Tested Applications	Dilution *
Size	100 Tests	Flow Cytometry (Flow)	0.5 µg/test
Host/Isotope	Mouse / IgG1	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Class	Monoclonal		
Type	Antibody		
Clone	15.2		
Immunogen	Human CD54		
Conjugate	FITC		
Form	Liquid		
Storage Conditions	4° C, store in dark		

## Product specific information

Commonly used, FITC conjugates provide relatively high absorptivity, excellent fluorescence quantum yield, and good water solubility.

## Background/Target Information

ICAM-1 (CD54) is an 85-110 kDa single-chain type 1 integral membrane glycoprotein with an extracellular domain of five immunoglobulin superfamily repeats, a transmembrane region and a cytoplasmic domain. ICAM-1 has 7 potential N-linked glycosylation sites and shares considerable amino acid sequence homology with ICAM-3 (CD50) and ICAM-2 (CD102). ICAM-1 binds to integrins of type CD11a/CD18 (leukocyte adhesion molecule, LFA-1), or CD11b/CD18 (Mac-1) and is exploited by Rhinovirus as a receptor. ICAM-1 is expressed by activated endothelial cells and detected on epithelial cells, fibroblasts, chondrocytes, B lymphocytes, T lymphocytes (low), monocytes, macrophages, dendritic cells and neutrophils, with lower levels that increase upon inflammation. ICAM-1 is also detected in some carcinoma and melanoma cells. Soluble ICAM-1 is detectable in the plasma and is elevated in patients with various inflammatory syndromes.

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