

Antigen	CD50 / ICAM3
Clone	BRIC 79
Product Code	9493
Immunoglobulin Class	Mouse IgG2a, kappa light chain

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Antigen Description and Distribution

Intercellular adhesion molecule 3 (ICAM3) also known as CD50 (Cluster of Differentiation 50), is a protein that in humans is encoded by the *ICAM3* gene. The protein encoded by this gene is a member of ICAM family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein is constitutively and abundantly expressed by all leukocytes and may be the most important ligand for LFA-1 in the initiation of the immune response¹. It functions not only as an adhesion molecule, but also as a potent signalling molecule. CD50 (ICAM-3) is found on the surface of T cells, B cells, NK cells, stem cell precursors, granulocytes and endothelial cells.

Clone

BRIC 79 was confirmed as binding to CD50 by labelling and immunoprecipitation of Jurkat T cells and then by analysing the appropriate band by mass spectrometry.

Reference

1. De Fougerolles AR, Springer TA (Jan 1992). "Intercellular adhesion molecule 3, a third adhesion counter-receptor for lymphocyte function-associated molecule 1 on resting lymphocytes". *The Journal of Experimental Medicine*. **175** (1): 185–90.