



CD54 Antibody [15.2]

CATALOG NUMBER: 76-431

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS, Func, IHC, WB
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The 15.2 antibody reacts with the 85-110 kDa intracellular adhesion molecule-1 (ICAM-1), a member of the Ig superfamily which acts as a ligand for the Lymphocyte Function-Associated Antigen-1 (LFA-1).
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, pH7.2.
CONCENTRATION:	2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C . Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	BB2, CD54, P3.58, ICAM1
OFFICIAL SYMBOL:	ICAM1
GENE ID:	3383

Background

BACKGROUND:	The 15.2 antibody reacts with the 85-110 kDa intracellular adhesion molecule-1 (ICAM-1), a member of the Ig superfamily which acts as a ligand for the Lymphocyte Function-Associated Antigen-1 (LFA-1). ICAM-1 is also known CD 54 and is expressed on non-hematopoietic cells of vascular endothelial, thymic epithelial, fibroblasts lineages, and on hematopoietic cells like macrophages, mitogen-stimulated T-lymphoblasts, dendritic cells in tonsils, lymph nodes and Peyer's patches, and germinal center B cells. Inflammatory mediators (IL-1, TNF, IFN-γ) enhance the production of ICAM-1 on fibroblasts and endothelial cells within few hours. Thus, ICAM-1 seems to be the marker of inflammatory reactions.
REFERENCES:	<p>1) Bhattacharya, A. L. O. K., Dorf, M. E., Springer, T. A. (1981). A shared alloantigenic determinant on Ia antigens encoded by the IA and IE subregions: evidence for I region gene duplication. The Journal of Immunology, 127(6), 2488-2495.</p> <p>2) Mendiratta, S. K., Singh, N., Bal, V., Rath, S. (1996). Analysis of T-cell hybridomas with an unusual MHC class II-dependent ligand specificity. Immunology, 89(2), 238-244.</p> <p>3) Unternaehrer, J. J., Chow, A., Pypaert, M., Inaba, K., Mellman, I. (2007). The tetraspanin CD9 mediates lateral association of MHC class II molecules on the dendritic cell surface. Proceedings of the National Academy of Sciences, 104(18), 7888-7893.</p>

FOR RESEARCH USE ONLY

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