

CD54 (ICAM-1) Monoclonal Antibody (YN1/1.7.4), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	YN1/1.7.4
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466480

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.125 µg/test	7 Publications
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: The YN1/1.7.4 monoclonal antibody reacts with mouse CD54 (InterCellular Adhesion Molecule-1, ICAM-1), a 90-110 kDa transmembrane glycoprotein expressed by monocytes, lymphocytes, dendritic cells, and endothelial cells. Expression of CD54 is upregulated on activated lymphocytes. Interaction of CD54 with its ligands CD11a and CD11b is important in the inflammatory response. The YN1/1.7.4 monoclonal antibody recognizes a different epitope than the eBioKAT-1 monoclonal antibody.

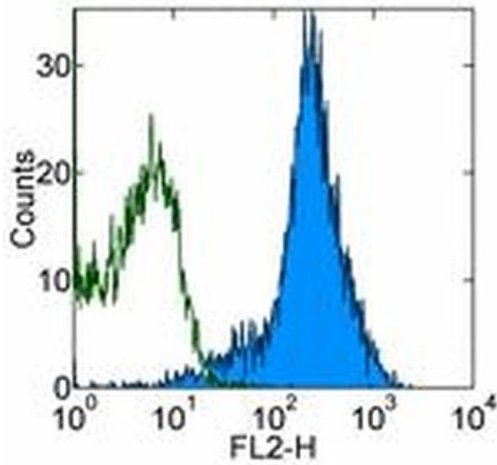
Applications Reported: The YN1/1.7.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The YN1/1.7.4 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used

at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD54 (ICAM-1) Monoclonal Antibody (YN1/1.7.4), Biotin, eBioscience™



CD54 (ICAM-1) Antibody (13-0541-82) in Flow

Staining of C57BL/6 splenocytes with 0.06 µg of Rat IgG2b kappa Isotype Control Biotin (Product # 13-4031-82) (open histogram) or 0.06 µg of Anti-Mouse CD54 (ICAM-1) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

14 References

Immunohistochemistry (1)

The Journal of clinical investigation

Hemodynamic regulation of perivalvular endothelial gene expression prevents deep venous thrombosis.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 13-0541-82) in Immunohistochemistry"

Authors: Welsh JD, Hoofnagle MH, Bamezai S, Oxendine M, Lim L, Hall JD, Yang J, Schultz S, Engel JD, Kume T, Oliver G, Jimenez JM, Kahn ML

Species
Not Applicable

Dilution
Not Cited

Year
2019

Immunohistochemistry (Frozen) (1)

The EMBO journal

A role for LFA-1 in delaying T-lymphocyte egress from lymph nodes.

"13-0541 was used in Immunofluorescence to study the role of the leukocyte function-associated antigen-1 (LFA-1) during T cell migration within and away from the lymph nodes."

Authors: Reichardt P, Patzak I, Jones K, Etemire E, Gunzer M, Hogg N

Species
Mouse

Dilution
Not Cited

Year
2013

Immunocytochemistry (3)

Nature communications

Palmitoyl acyltransferase DHHC21 mediates endothelial dysfunction in systemic inflammatory response syndrome.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 13-0541-82) in Immunofluorescence"

Authors: Beard RS, Yang X, Meegan JE, Overstreet JW, Yang CG, Elliott JA, Reynolds JJ, Cha BJ, Pivetti CD, Mitchell DA, Wu MH, Deschenes RJ, Yuan SY

Species
Not Applicable

Dilution
Not Cited

Year
2016

PloS one

Defining the transcriptional and cellular landscape of type 1 diabetes in the NOD mouse.

"13-0541 was used in Immunofluorescence to examine autoimmune diabetes and its disease progression markers."

Authors: Carrero JA, Calderon B, Towfic F, Artyomov MN, Uhanue ER

Species
Mouse

Dilution
Not Cited

Year
2013

[View more ICC/IF references on thermofisher.com](#)

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Flow (7)

Neu (1)

FN (1)

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