

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

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	YN1/1.7.4
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465706

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	25 Publications

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.

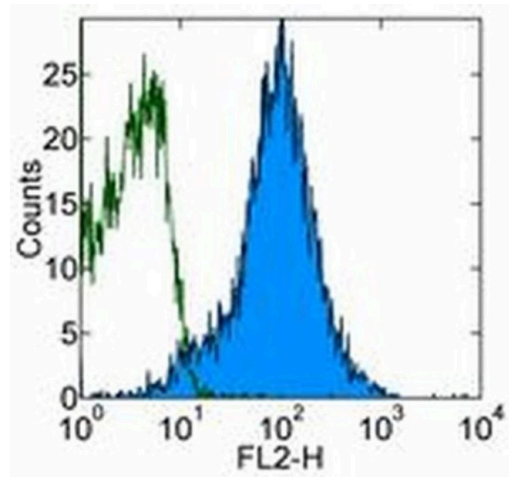
Applications Reported: The YN1/1.7.4 antibody has been reported for use in flow cytometric analysis.

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.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD54 (ICAM-1) Antibody (12-0541-81) in Flow
Staining of C57BL/6 splenocytes with 0.06 µg of Rat IgG2b kappa Isotype Control PE (Product # 12-4031-82) (open histogram) or 0.06 µg of Anti-Mouse CD54 (ICAM-1) PE (filled histogram). Total viable cells were used for analysis.

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Immunohistochemistry (1)

<p>The Journal of investigative dermatology</p> <p>Innate Immune Dysfunction in Rosacea Promotes Photosensitivity and Vascular Adhesion Molecule Expression.</p> <p>"12-0541 was used in Immunohistochemistry to show how the expression of LL-37 can lead to enhanced sensitivity to UVB radiation in rosacea."</p> <p>Authors: Kulkarni NN,Takahashi T,Sanford JA,Tong Y,Gombart AF,Hinds B,Cheng JY,Gallo RL</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:250</p>
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Immunohistochemistry (Paraffin) (1)

<p>PloS one</p> <p>Interleukin-10 overexpression promotes Fas-ligand-dependent chronic macrophage-mediated demyelinating polyneuropathy.</p> <p>"12-0541 was used in Immunohistochemistry on paraffin embedded tissues to investigate the conditions contributing to the development of CIDP and related conditions."</p> <p>Authors: Dace DS,Khan AA,Stark JL,Kelly J,Cross AH,Apte RS</p>	<p>Year 2009</p> <p>Species Mouse</p>
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Immunocytochemistry (2)

<p>Nature</p> <p>Neutrophil ageing is regulated by the microbiome.</p> <p>"12-0541 was used in Flow cytometry/Cell sorting to show that neutrophil pro-inflammatory activity correlates positively with their ageing whilst in circulation."</p> <p>Authors: Zhang D,Chen G,Manwani D,Mortha A,Xu C,Faith JJ,Burk RD,Kunisaki Y,Jang JE,Scheiermann C,Merad M,Frenette PS</p>	<p>Year 2015</p> <p>Species Mouse</p>
<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p>Ontogeny of stromal organizer cells during lymph node development.</p> <p>"12-0541 was used in Immunofluorescence to highlight the importance of the signals and cellular interactions that induce the maturation of stromal cells."</p> <p>Authors: Bénézéch C,White A,Mader E,Serre K,Parnell S,Pfeffer K,Ware CF,Anderson G,Caamaño JH</p>	<p>Year 2010</p> <p>Species Mouse</p>

More applications with references on thermofisher.cn

Flow (25)

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