

CD54 (ICAM-1) Monoclonal Antibody (HA58), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HA58
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10717817

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	9 Publications

Product Specific Information

Description: The HA58 monoclonal antibody reacts with human CD54 (InterCellular Adhesion Molecule-1, ICAM-1), a 90-110 kDa transmembrane glycoprotein expressed by monocytes, lymphocytes and endothelial cells. Expression of CD54 is upregulated on activated lymphocytes. Interaction of CD54 with its ligand CD11a is important in the inflammatory response.

Applications Reported: This HA58 antibody has been reported for use in flow cytometric analysis.

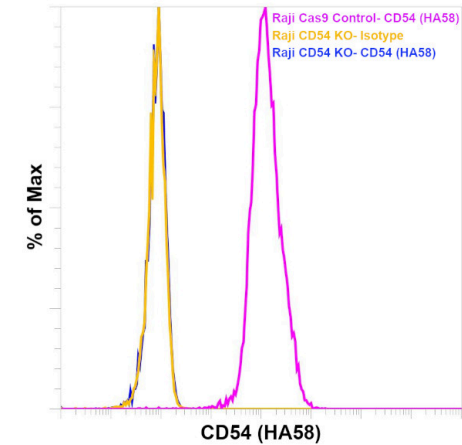
Applications Tested: This HA58 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

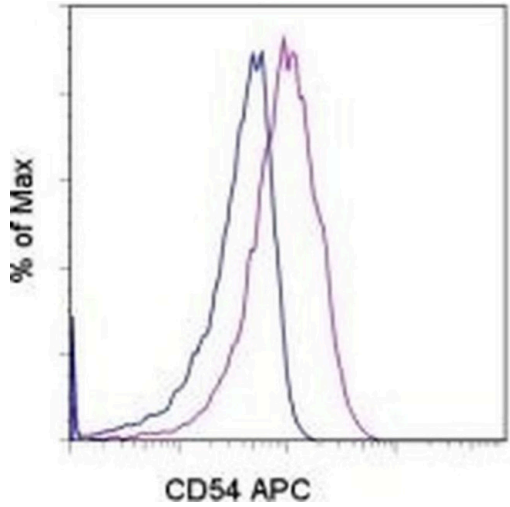
CD54 (ICAM-1) Antibody (17-0549-42)

Antibody clone (HA58) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in CD54 KO cells (blue histogram) compared to the control Cas9 cells (pink histogram) using CD54 antibody (HA58). Yellow histogram represents staining with the isotype control. {KO}



CD54 (ICAM-1) Antibody (17-0549-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (blue histogram) or Anti-Human CD54 (ICAM-1) APC (purple histogram). Cells in the lymphocyte gate were used for analysis.



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Flow Cytometry (9)

<p>PLoS genetics</p> <p>Multimodal CRISPR perturbations of GWAS loci associated with coronary artery disease in vascular endothelial cells.</p> <p>"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 17-0549-42) in Flow Cytometry"</p> <p>Authors: Wünnemann F,Fotsing Tadjó T,Beaudoin M,Lalonde S,Lo KS,Kleinstiver BP,Lettre G</p>	<p>Year</p> <p>2023</p>
<p>Immunity, inflammation and disease</p> <p>Impact of latency-reversing agents on human macrophage physiology.</p> <p>"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 17-0549-42) in Flow Cytometry"</p> <p>Authors: Hany L,Turmel MO,Barat C,Ouellet M,Tremblay MJ</p>	<p>Year</p> <p>2023</p>

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