

# CD54 (ICAM-1) Monoclonal Antibody (HA58), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HA58
Conjugate	Super Bright™ 436
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784810

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication

## 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.25 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

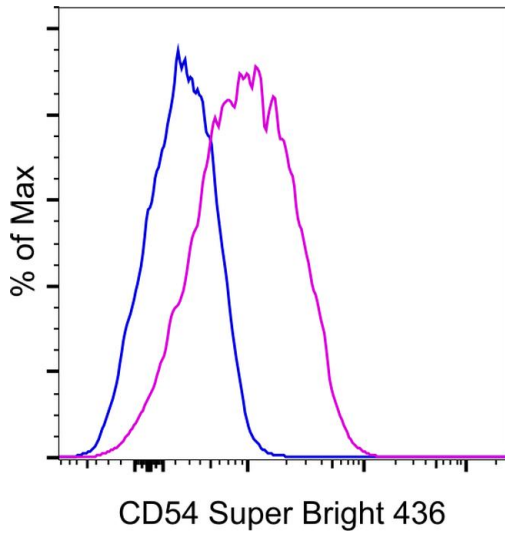
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

### Product Images For CD54 (ICAM-1) Monoclonal Antibody (HA58), Super Bright™ 436, eBioscience™



#### CD54 (ICAM-1) Antibody (62-0549-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (blue histogram) or CD54 Monoclonal Antibody, Super Bright 436 (purple histogram). Cells in the lymphocyte gate were used for analysis.

## Flow Cytometry (1)

PLoS pathogens

### Pomalidomide restores immune recognition of primary effusion lymphoma through upregulation of ICAM-1 and B7-2.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 62-0549-42) in Flow Cytometry"

Authors: Shrestha P, Davis DA, Jaeger HK, Stream A, Aisabor AI, Yarchoan R

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

## Neutralization (1)

PLoS pathogens

### Pomalidomide restores immune recognition of primary effusion lymphoma through upregulation of ICAM-1 and B7-2.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 62-0549-42) in Flow Cytometry"

Authors: Shrestha P, Davis DA, Jaeger HK, Stream A, Aisabor AI, Yarchoan R

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

## Functional Assay (1)

Nature communications

### Preservation of microvascular barrier function requires CD31 receptor-induced metabolic reprogramming.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 62-0549-42) in Functional assay"

Authors: Cheung KCP, Fanti S, Mauro C, Wang G, Nair AS, Fu H, Angeletti S, Spoto S, Fogolari M, Romano F, Akseptijevic D, Liu W, Li B, Cheng L, Jiang L, Vuononvirta J, Poobalasingam TR, Smith DM, Ciccozzi M, Solito E, Marelli-Berg FM

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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