

# CD54 (ICAM-1) Monoclonal Antibody (HA58), Alexa Fluor™ 700, 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), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HA58
Conjugate	Alexa Fluor™ 700
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_2815238

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	4 Publications
ChIP assay (ChIP)	-	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.

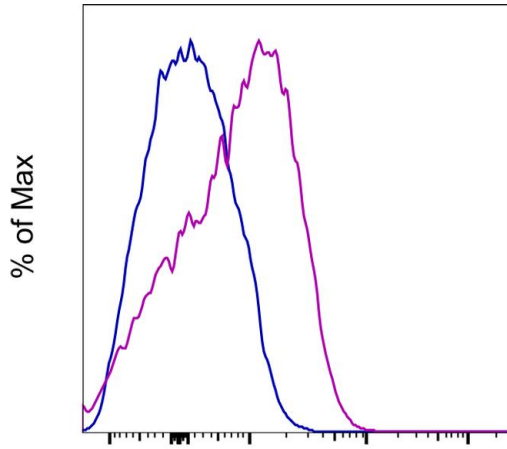
Applications Tested: This HA58 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror

and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser

### Product Images For CD54 (ICAM-1) Monoclonal Antibody (HA58), Alexa Fluor™ 700, eBioscience™



#### CD54 (ICAM-1) Antibody (56-0549-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Alexa Fluor 700 (Product # 56-4714-80) (blue histogram) or CD54 (ICAM-1) Monoclonal Antibody, Alexa Fluor 700 (purple histogram). Cells in the lymphocyte gate were used for analysis.

CD54 (ICAM-1) Alexa Fluor 700

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

## 8 References

### Immunohistochemistry (1)

#### Theranostics

#### CD54-NOTCH1 axis controls tumor initiation and cancer stem cell functions in human prostate cancer.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 56-0549-42) in Immunohistochemistry"

Authors: Li C,Liu S,Yan R,Han N,Wong KK,Li L

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

### Flow Cytometry (4)

#### 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 # 56-0549-42) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

#### Oncotarget

#### EWS-FLI1 low Ewing sarcoma cells demonstrate decreased susceptibility to T-cell-mediated tumor cell apoptosis.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 56-0549-42) in Flow Cytometry"

Authors: Bailey KM,Julian CM,Klinghoffer AN,Bernard H,Lucas PC,McAllister-Lucas LM

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

[View more Flow references on thermofisher.com](#)

### ChIP assay (1)

#### Nature communications

#### The critical role of SENP1-mediated GATA2 deSUMOylation in promoting endothelial activation in graft arteriosclerosis.

"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 56-0549-42) in ChIP assay"

Authors: Qiu C,Wang Y,Zhao H,Qin L,Shi Y,Zhu X,Song L,Zhou X,Chen J,Zhou H,Zhang H,Tellides G,Min W,Yu L

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

### More applications with references on thermofisher.com

Neu (1)

FN (1)

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