

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

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HA58
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467304

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	2 Publications
Immunohistochemistry (IHC)	Assay-Dependent	3 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	4 Publications
ChIP assay (ChIP)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	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, immunoblotting (WB), and immunohistochemical staining. HA58 has also been reported in blocking of in vitro mixed lymphocyte reaction. (Please use Functional Grade purified HA58, cat. 16-0549, in functional assays.)

**Applications Tested:** The HA58 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Western Blot (2)

### 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 # 14-0549-82) in Western Blot"

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**  
Human

**Dilution**  
Not Cited

**Year**  
2017

### Breast cancer : basic and clinical research

#### A Quantitative Perspective on Surface Marker Selection for the Isolation of Functional Tumor Cells.

"14-0549 was used in Western Blotting to extend expression of key tumor markers beyond traditional positive/negative immunohistochemical staining to guide future fluid biopsy targeting strategies."

Authors: Cahall CF,Lilly JL,Hirschowitz EA,Berron BJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2015

## Immunohistochemistry (3)

### 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 # 14-0549-82) in Immunofluorescence"

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

**Species**  
Human  
Mouse

**Dilution**  
Not Cited  
Not Cited

**Year**  
2017

### Respiratory research

#### Expression of endothelia and lymphocyte adhesion molecules in bronchus-associated lymphoid tissue (BALT) in adult human lung.

"14-0549 was used in Immunohistochemistry to identify which adhesion molecules recruit specific subsets of lymphocytes into human bronchus-associated lymphoid tissue."

Authors: Kawamata N,Xu B,Nishijima H,Aoyama K,Kusumoto M,Takeuchi T,Tei C,Michie SA,Matsuyama T

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2009

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## More applications with references on thermofisher.com

ICC/IF (1)

Flow (4)

ChIP (1)

Neu (1)

FN (1)

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