

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

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HA58
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468981

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	9 Publications
ChIP assay (ChIP)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	1 Publication
Inhibition Assays (IA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 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: The HA58 antibody has been reported for use in flow cytometric analysis. HA58 has also been reported in blocking of in vitro mixed lymphocyte reaction.

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

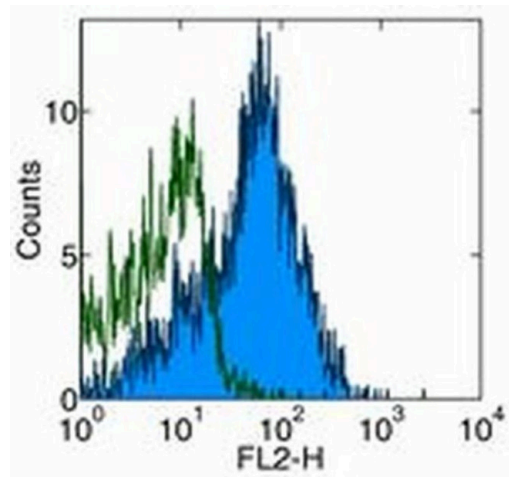
Filtration: 0.2 µm post-manufacturing filtered.

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

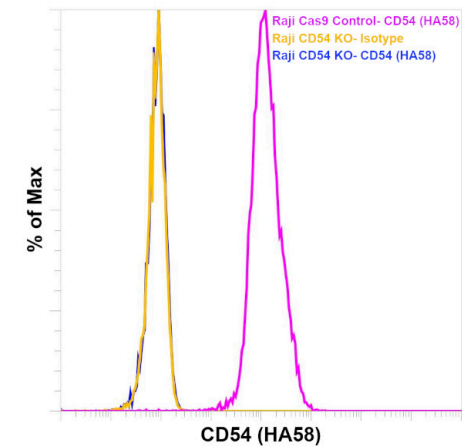
Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

Product Images For CD54 (ICAM-1) Monoclonal Antibody (HA58), Functional Grade, eBioscience™



CD54 (ICAM-1) Antibody (16-0549-82) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD54 (ICAM-1) PE. Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.



CD54 (ICAM-1) Antibody (16-0549-82)
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}

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Western Blot (1)

Nature communications	Year 2017
The critical role of SENP1-mediated GATA2 deSUMOylation in promoting endothelial activation in graft arteriosclerosis.	Species Human
"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 16-0549-82) 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	

Immunohistochemistry (2)

Theranostics	Year 2017
CD54-NOTCH1 axis controls tumor initiation and cancer stem cell functions in human prostate cancer.	Species Human
"Published figure using CD54 (ICAM-1) monoclonal antibody (Product # 16-0549-82) in Flow Cytometry"	
Authors: Li C,Liu S,Yan R,Han N,Wong KK,Li L	

Proceedings of the National Academy of Sciences of the United States of America	Year 1999
The human natural killer cell immune synapse.	
Authors: Davis DM,Chiu I,Fassett M,Cohen GB,Mandelboim O,Strominger JL	

Immunocytochemistry (1)

Theranostics	Year 2017
CD54-NOTCH1 axis controls tumor initiation and cancer stem cell functions in human prostate cancer.	Species Human
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- Flow (9)
- ChIP (1)
- Neu (1)
- FN (1)
- IA (1)
- Misc (2)

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