

ICAM-1 Monoclonal Antibody (84H10)

Catalog NumberMA1-80611

Product data sheet

Details		Species Reactivity	
Size	200 µg	Species reactivity	Dog, Human
Host/Isotope	Mouse / IgG1	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution *Assay-dependent
Clone	84H10	Flow Cytometry (Flow)	Neat-1:10
Immunogen	K562 cell line.	Functional Assay (FN)	Assay-dependent
Conjugate	Unconjugated	Immunohistochemistry (Frozen) (IHC (F))	1:20-1:50
Form	Liquid	Immunoprecipitation (IP)	5 µg x 10^7 cells
Concentration	1 mg/mL	Published Applications	
Purification	Protein A	Flow Cytometry (Flow)	See 2 publications below
Storage buffer	PBS, pH 7.4	Miscellaneous PubMed (Misc)	See 1 publications below
Contains	<0.1% sodium azide	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

This product contains sodium azide; removal by dialysis is recommended prior to use in functional assays. For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Mouse anti Human CD54 antibody, clone 84H10 recognizes the D1 domain of ICAM-1.

Background/Target Information

ICAM-1 (CD54) is an 85-110 kDa single-chain type 1 integral membrane glycoprotein with an extracellular domain of five immunoglobulin superfamily repeats, a transmembrane region and a cytoplasmic domain. ICAM-1 has 7 potential N-linked glycosylation sites and shares considerable amino acid sequence homology with ICAM-3 (CD50) and ICAM-2 (CD102). ICAM-1 binds to integrins of type CD11a/CD18 (leukocyte adhesion molecule, LFA-1), or CD11b/CD18 (Mac-1) and is exploited by Rhinovirus as a receptor. ICAM-1 is expressed by activated endothelial cells and detected on epithelial cells, fibroblasts, chondrocytes, B lymphocytes, T lymphocytes (low), monocytes, macrophages, dendritic cells and neutrophils, with lower levels that increase upon inflammation. ICAM-1 is also detected in some carcinoma and melanoma cells. Soluble ICAM-1 is detectable in the plasma and is elevated in patients with various inflammatory syndromes.

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PubMed References For ICAM-1 Monoclonal Antibody (84H10)

2 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	MA1-80611 was used in flow cytometry describe an immunophenotypic scoring system for B-cell chronic lymphocytic leukemia
	Journal of cellular physiology (2006; 207: 354) "A scoring system based on the expression of six surface molecules allows the identification of three prognostic risk groups in B-cell chronic lymphocytic leukemia." Author(s):Zucchetto A,Bomben R,Dal Bo M,Sonego P,Nanni P,Rupolo M,Bulian P,Dal Maso L,Del Poeta G,Del Principe MI,Degan M,Gattei V PubMed Article URL: http://dx.doi.org/10.1002/jcp.20570
Not Applicable / Not Cited	MA1-80611 was used in flow cytometry to use flow cytometry to characterize 123 cases of B-cell chronic lymphocytic leukemia
	Journal of cellular physiology (2005; 204: 113) "Signature of B-CLL with different prognosis by Shrunk centroids of surface antigen expression profiling." Author(s):Zucchetto A,Sonego P,Degan M,Bomben R,Dal Bo M,Russo S,Attadia V,Rupolo M,Buccisano F,Del Principe MI,Del Poeta G,Pucillo C,Colombatti A,Campanini R,Gattei V PubMed Article URL: http://dx.doi.org/10.1002/jcp.20269

1 Miscellaneous PubMed References

Species / Dilution	Summary
Human / Not Cited	MA1-80611 was used in flow cytometry to determine the immunophenotypic profile of B-CLL subsets with different prognoses.
	Journal of immunological methods (2005; 305: 20) "Surface-antigen expression profiling (SEP) in B-cell chronic lymphocytic leukemia (B-CLL): Identification of markers with prognostic relevance." Author(s):Zucchetto A,Sonego P,Degan M,Bomben R,Dal Bo M,Russo S,Attadia V,Rupolo M,Buccisano F,Steffan A,Del Poeta G,Pucillo C,Colombatti A,Campanini R,Gattei V PubMed Article URL: http://dx.doi.org/10.1016/j.jim.2005.07.004

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