

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	ICAM-1, Human, clone HM.2		
Catalog number	HM2104-100UG		
Lot number	-	Expiry date	-
Volume	1 ml	Amount	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•	•		•		•	•	
No								
N.D.			•		•			•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

General Information

Description The monoclonal HM.2 antibody reacts with the 90 kD glycoprotein Intracellular Adhesion Molecule-1 (ICAM-1). The adhesion molecule ICAM-1 belongs to the immunoglobulin superfamily, C2 subset; it is a ligand for the Integrins LFA-1 and MAC-1 and for CD43. ICAM-1 is an essential component in many immune-related processes. ICAM-1 links with receptors of the integrin family, thereby mediating cell-cell interactions and allowing for signal transduction. ICAM-1 interacts specifically with its receptors to induce a reversible adhesion interaction. For processes like T cell activation and leucocyte recruitment, normal immune function relies on ICAM-1. Therefore, it is understandable that alterations in ICAM-1 structure or expression are associated with immune disorders. It is important to properly understand the various functions and regulatory mechanisms of ICAM-1, the resulting disease-related failures, and the various treatments. ICAM-1 is a type of intercellular adhesion molecule continuously present in low concentrations in the membranes of leukocytes and endothelial cells. Upon cytokine stimulation, the concentrations greatly increase. ICAM-1 can be induced by interleukin-1 (IL-1) and tumor necrosis factor alpha (TNFalpha) and is expressed by the vascular endothelium, macrophages and lymphocytes.

Aliases Intracellular Adhesion Molecule-1, ICAM-1, CD54

References

1. van de Stolpe, A et al; Intercellular adhesion molecule-1. J Mol Med 1996; 74:13
2. Sligh, J et al; Inflammatory and immune responses are impaired in mice deficient in intercellular adhesion molecule 1. PNAS 1993; 90: 8529

Storage&stability Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

Precautions For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
02/12/2019

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.