

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	MAdCAM-1, Human, clone 314G8		
<b>Catalog number</b>	HM2207-100UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	1 ml	<b>Amount</b>	100 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG1	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	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

\* If you are interested to use this antibody for functional studies, please contact us for bulk and low endotoxin opportunities.

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 1:50.

- FS: antibody 314G8 is useful for immunoassays and inhibition of biological activity. For inhibition of biological activity in vitro dilutions have to be made according to the amounts of MAdCAM-1 to be inactivated.

**General Information**

<b>Description</b>	The monoclonal antibody 314G8 reacts with human mucosal addressin cell adhesion molecules-1 (MAdCAM-1), a key player in mediating the infiltration of leukocytes into chronically inflamed tissue. MAdCAM-1 is a cell-surface Ig superfamily member composed of two extracellular Ig domains, followed by a mucin-like domain, a transmembrane domain and a short cytoplasmatic domain. It interacts via its N-terminal Ig domain with the lymphocyte homing receptor alpha4beta7, which plays a critical role in forming the gut-associated lymphoid system. MAdCAM-1 promotes the adhesion of T- and B cells, monocytes/macrophages, and potentially eosinophils, basophils, and differentiated mast cells to the vascular endothelium. Mucosal addressin cell adhesion molecule-1 RNA transcripts are predominantly expressed in the small intestine, mesenteric lymph nodes, colon and spleen; and are very weakly expressed in human pancreas and brain. The monoclonal antibody 314G8 recognizes a site in the N-terminal Ig domain of MAdCAM-1. The monoclonal antibody 314G8 detects MAdCAM-1 on venules in the spleen and small intestine. MAdCAM-1 is strongly expressed in the synovium of osteoarthritis patients, predominantly on the endothelial lining of blood vessels, but also within the vessel lumen. The monoclonal antibody 314G8 may be useful in diagnosis of inflammation in humans by monitoring the presence and levels of MAdCAM-1.
<b>References</b>	1. Leung, E et al; Bioassay detects soluble MAdCAM-1 in body fluids. Immunol Cell Biol 2004, 82: 400
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	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  
03/12/2019

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).