

RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Mouse Anti-Human MAdCAM-1:Biotin

Catalog No.
DS-MB-03383

Target Species
Human

Isotype
IgG1

Preparation

Purification: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Immunogen: Recombinant soluble MAdCAM-1-fc fusion protein

Specificity

DS-MB-03383 recognizes human mucosal addressin cell adhesion molecule 1 (MAdCAM-1), a 60kD cell surface protein that is involved in lymphocyte trafficking. MAdCAM-1 is expressed on high endothelial venules of Peyer's patches and mesenteric lymph nodes. MAdCAM-1 expression has also been reported in the gut lamina propria but DS-MB-03383 does not recognise MAdCAM-1 in these tissues.

DS-MB-03383 reacts with the ligand-binding first Ig domain and reports suggest that a splice variant exists in the gut which is not recognised by DS-MB-03383. DS-MB-03383 is reported to block the interaction of MAdCAM-1 with alpha 4 beta 7 (2).

Formulation

Product Type: Monoclonal Antibody

Product Form: purified IgG conjugated to Biotin – liquid

Preservatives & Stabilizers: 0.09% Sodium Azide, 1% Bovine Serum Albumin

Buffer Solution: Phosphate buffered saline pH7.4

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Storage

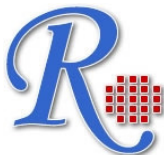
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of dispatch.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1ug/ml - 10ug/ml
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
Immunohistology - Resin			•	
Flow Cytometry (1)	•			Neat – 1:10
Western Blotting			•	

Note: Optimal dilutions should be determined by each laboratory for each application.
(1) Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood.

References

1. Leung, E. et al. (1996) Cloning of the mucosal addressin MAdCAM-1 from human brain: identification of novel alternatively spliced transcripts. *Immunol. Cell. Biol.* 74: 490-496.
2. Leung, E. et al. (2004) Bioassay detects soluble MAdCAM-1 in body fluids. *Immunol. Cell. Biol.* 82: 400-409.

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