

## Product datasheet

# Anti-MAdCAM1 antibody [314G8] ab34247

## 1 References

### Overview

<b>Product name</b>	Anti-MAdCAM1 antibody [314G8]
<b>Description</b>	Mouse monoclonal [314G8] to MAdCAM1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-Fr, IHC-P, Functional Studies, Flow Cyt, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Fusion protein corresponding to Human MAdCAM1. Database link: <a href="#">Q13477</a>

### General notes

Clone 314G8 reacts with the ligand binding first Ig domain and reports suggest that a splice variant exists in the gut which is not recognised by clone 314G8. Clone 314G8 is reported to block the interaction of MAdCAM1 with alpha 4 beta 7 (see reference 1).

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	This antibody was purified from tissue culture supernatant.
<b>Primary antibody notes</b>	Clone 314G8 reacts with the ligand binding first Ig domain and reports suggest that a splice variant exists in the gut which is not recognised by clone 314G8. Clone 314G8 is reported to block the interaction of MAdCAM1 with alpha 4 beta 7 (see reference 1).

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	314G8
<b>Myeloma</b>	P3x63-Ag8.653
<b>Isotype</b>	IgG1

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab34247 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>ELISA</b>		Use at an assay dependent concentration.
<b>IHC-Fr</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		Use at an assay dependent concentration.
<b>Functional Studies</b>		Use at an assay dependent concentration.
<b>Flow Cyt</b>		Use at an assay dependent concentration. Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
<b>WB</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	Cell adhesion leukocyte receptor expressed by mucosal venules, helps to direct lymphocyte traffic into mucosal tissues including the Peyer patches and the intestinal lamina propria. It can bind both integrin alpha-4/beta-7 and L-selectin, regulating both the passage and retention of leukocytes. Isoform 2, lacking the mucin-like domain, may be specialized in supporting integrin alpha-4/beta-7-dependent adhesion strengthening, independent of L-selectin binding.
<b>Tissue specificity</b>	Highly expressed on high endothelial venules (HEV) and lamina propria venules found in the small intestine, and to a lesser extent in the colon and spleen. Very low levels of expression found in pancreas and brain. Not expressed in the thymus, prostate, ovaries, testis, heart, placenta, lung, liver, skeletal muscle, kidney or peripheral blood leukocytes.
<b>Sequence similarities</b>	Contains 2 Ig-like (immunoglobulin-like) domains.
<b>Post-translational modifications</b>	The Ser/Thr-rich mucin-like domain may provide possible sites for O-glycosylation.
<b>Cellular localization</b>	Membrane.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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