Product datasheet

Anti-MAdCAM1 antibody [314G8] ab34247

1 References

Overview

Product name Anti-MAdCAM1 antibody [314G8]
Description Mouse monoclonal [314G8] to MAdCAM1
Host species Mouse
Tested applications Suitable for: Flow Cyt, IHC-P, ELISA, WB, Functional Studies, IHC-Fr
Species reactivity Reacts with: Human
Immunogen Recombinant soluble MAdCAM-1-fc fusion protein (Human).
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).

Properties

Form Liquid
Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer Preservative: None
Constituents: PBS, pH 7.4
Purity Protein G purified
Purification notes This antibody was purified from tissue culture supernatant.
Primary antibody 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).
Clonality Monoclonal
Clone number 314G8
Myeloma P3x63-Ag8.653
Isotype IgG1

Applications

Our Abpromise guarantee covers the use of ab34247 in the following tested applications.
Function

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.

Tissue specificity

Highly expressed on high endothelial venules (HEV) and lamina propia 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.

Sequence similarities

Contains 2 Ig-like (immunoglobulin-like) domains.

Post-translational modifications

The Ser/Thr-rich mucin-like domain may provide possible sites for O-glycosylation.

Cellular localization

Membrane.

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