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MADCAM1 Recombinant Monoclonal Antibody

Product Code	CSB-RA215817A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13477
Immunogen	A synthesized peptide derived from human MADCAM1
Species Reactivity	Human
Tested Applications	ELISA, FC; Recommended dilution: FC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cardiovascular; Immunology; Signal transduction
Gene Names	MADCAM1
Clone No.	12B5

Image



Overlay Peak curve showing PC3 cells surface stained with CSB-RA215817A0HU (red line) at 1:100. The cells were incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10⁶cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1ug/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

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The production of the MADCAM1 recombinant monoclonal antibody entails a meticulous and standardized process to ensure its quality and specificity. Initially, B cells are isolated from an immunized animal using the synthesized peptide derived from human MADCAM1 as the immunogen. Following that, total RNA is extracted from the isolated B cells and converted into cDNA through reverse transcription. The MADCAM1 antibody genes are then amplified using PCR with primers specific to the antibody constant regions and inserted into an expression vector. This expression vector is subsequently introduced into host cells, enabling the production of the MADCAM1 recombinant monoclonal antibody. The antibody is harvested from the cell culture supernatant and purified using affinity chromatography, resulting in a highly purified preparation. Rigorous characterization assays, including ELISA and FC analysis, are performed to validate the antibody's specificity and functionality, ensuring its

precise binding to human MADCAM1 protein.