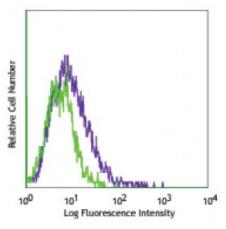
Product Data Sheet

Biotin anti-mouse MAdCAM-1

Catalog # / Size:	1203530 / 500 µg 1203525 / 50 µg					
Clone:	MECA-367					
Isotype:	Rat IgG2a, к					
Immunogen:	Endothelial cells					
Reactivity:	Mouse					
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.					
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.					
Concentration:	0.5					



TNF-a-stimulated bEND.3 cells stained with MECA-367 biotin, followed by Sav-PE

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: <i>in vitro</i> and <i>in vivo</i> blocking of lymphocyte adhesion and <i>in vivo</i> blocking of lymphocyte homing ^{1-4,7} , immunohistochemical staining ^{1,5,6} of acetone-fixed frozen sections, immunoprecipitation, and Western blotting1.
Application References:	 Streeter PR, <i>et al.</i> 1988. <i>Nature</i> 331:41. Briskin MJ, <i>et al.</i> 1993. <i>Nature</i> 363:461. Berlin C, <i>et al.</i> 1993. <i>Cell</i> 74:185. Bargatze RF, <i>et al.</i> 1995. <i>Immunity</i> 3:99. Tanneau GM, <i>et al.</i> 1999. <i>J. Histochem. Cytochem.</i> 47:1581. Savinov AY, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 197:643. Rivera-Nieves J, <i>et al.</i> 2005. <i>J. Immunol.</i> 174:2343.

Description: MAdCAM-1 is a 58-66kD type I glycoprotein, also known as Mucosal addressin cell adhesion molecule-1. This mucosal vascular addressin is a member of the Ig superfamily found on fetus and neonatal endothelial cells. In adults, MAdCAM-1 is predominately expressed on high endothelial venule (HEV) of Peyer's patches, mesenteric lymph nodes and gut lamina propria. It is also expressed on vascular endothelium in mammary glands and pancreas. MAdCAM-1, through its interaction with integrin $\alpha 4\beta 7$ or CD62L, is involved in lymphocyte tethering, rolling, and homing. It has been reported that immobilized MAdCAM-1 is able to co-stimulate T cell proliferation. The MECA-367 antibody blocks the interaction of MAdCAM-1 with its counter-receptor both *in vitro* and *in vivo*. *In vivo* administration of the mAb is able to reduce T-cell mediated inflammation in some gastrointestinal diseases.

Antigen 1. Streeter PR, et al. 1988. Nature 331:41

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References:	2.	Bri	skin	۱MJ,	et	al	. 1	993	ι.Λ	latı	ıre	363:461.	

- 3. Berlin C, *et al.* 1993. *Cell* 74:185.
 - 4. Lehnert K, et al. 1998. Eur. J. Immunol. 28:3605.
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