

Datasheet: MCA2394

Description:	RAT ANTI MOUSE SIGN-R1
Specificity:	SIGN-R1
Other names:	CD209
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-TR9
Isotype:	IgM
Quantity:	0.25 mg

Product Details

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			1/25 - 1/50
Immunohistology - Paraffin			▪	
Immunohistology - Resin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgM - liquid
Preparation	Ig fraction prepared by ammonium sulphate precipitation
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgM concentration 1.0 mg/ml
Immunogen	Isolated C3H thymic stromal cells.
External Database Links	<p>UniProt: Q91ZX1 C209A_MOUSE Related reagents</p> <p>Entrez Gene: 170786 Cd209a Related reagents</p>
Synonyms	Cire

Fusion Partners	Spleen cells from immunised rats were fused with cells of the Mouse P3-X63-Ag8.563 myeloma cell line.
Specificity	<p>MCA2394 recognises mouse SIGN-R1, a C-type lectin that has been identified as a murine homologue of the human DC-SIGN related molecule, L-SIGN. Mouse SIGN-R1 is specifically expressed on marginal zone macrophages in the spleen, medullary and subcapsular sinus macrophages in the lymph nodes, and at lower levels on liver sinusoidal endothelial cells. SIGN-R1 has not been detected on murine dendritic cell populations. Like many C-type lectins, SIGN-R1 functions as a pathogen recognition receptor <i>in vivo</i> and plays an important role in defence against pathogens.</p> <p>Antibodies, produced by clone ER-TR9, are reported to block the uptake of neutral polysaccharides by macrophages (4).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Method sheets are available on request
References	<ol style="list-style-type: none"> 1. van Vliet, E. <i>et al.</i> (1985) Marginal zone macrophages in the mouse spleen identified by a monoclonal antibody. J. Histochem Cytochem. 33: 40-44. 2. Teunis, B.H. <i>et al.</i> (2002) Marginal zone macrophages express a murine homologue of DC-SIGN that captures blood-borne antigens <i>in vivo</i>. Blood. 100: 2908-2916. 3. Kang, Y.S. <i>et al.</i> (2003) SIGN-R1, a novel C-type lectin expressed by marginal zone macrophages in spleen, mediates uptake of the polysaccharide dextran. Int Immunol. 15: 177-186. 4. Kraal, G. <i>et al.</i> (1989) Marginal zone macrophages and their role in the immune response against T-independent type 2 antigens: modulation of the cells with specific antibody. Eur. J. Immunol. 19: 675-680.
Further Reading	1. Colton, C.A. (2009) Heterogeneity of microglial activation in the innate immune response in the brain. J Neuroimmune Pharmacol. 4: 399-418. (review)
Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10040 available at: http://www.abdserotec.com/uploads/MSDS/10040.pdf

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgM (STAR116...) [Alk. Phos.](#), [Alk. Phos.](#), [FITC](#), [HRP](#)

Goat Anti Rat IgM (302001...) [Biotin](#), [RPE](#)

Other formats and applications

This reagent is also available in a [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Biotin](#), [Low Endotoxin](#) format

For research purposes only, unless otherwise specified in writing by AbD Serotec.

'M193204:110520'



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