Datasheet: MCA947A647

Description:	RAT ANTI MOUSE CD169:Alexa Fluor® 647
Specificity:	CD169
Other names:	SIALOADHESIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	MOMA-1
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Mouse

Species Cross Reactivity

Does not react with:Human, Rat

Product Form

Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin

Approx. Protein Concentrations	IgG concentration 0.05mg/ml
Immunogen	Stromal (reticular) elements from mouse lymph nodes.
External Database Links	**UniProt:** Q62230 Related reagents **Entrez Gene:** 20612 Siglec1 Related reagents
Synonyms	Sa, Sn
RRID	AB_10545834
Fusion Partners	Spleen cells from hyperimmunized mice were fused with cells from the murine SP2/0 myeloma.
Specificity	**Rat anti Mouse CD169, clone MOMA-1** recognizes murine CD169, also known as sialoadhesin or Siglec-1. CD169 is a lectin-like receptor expressed by certain populations of macrophages including marginal zone metallophils of the spleen, subcapsular macrophages of lymph nodes and stromal macrophages in bone marrow (Morris *et al.* 1991). CD169 is a ~185 kDa sialic acid binding receptor containing 17 immunoglobulin-like domains (Crocker *et al.* 1992). Expression of CD169 can be induced on macrophages in culture by a serum factor and further modulated by cytokine exposure (McWilliam *et al.* 1992). Rat anti mouse CD169, clone MOMA-1 has been used for the *in vivo* depletion of specific macrophage populations (Kraal *et al.* 1988).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.
References	1. Kraal, G. and Janse, M. (1986) Marginal metallophilic cells of the mouse spleen identified by a monoclonal antibody. Immunology. 58: 665-9. 2. Oetke, C. *et al.* (2006) The antigen recognized by MOMA-I is sialoadhesin. Immunol Lett. 106: 96-98. 3. Tumanov, A.V. *et al.* (2010) Cellular source and molecular form of TNF specify its distinct functions in organization of secondary lymphoid organs. Blood. 116 (18): 3456-64. 4. Karlsson, M.C. *et al.* (2003) Macrophages control the retention and trafficking of B lymphocytes in the splenic marginal zone. J Exp Med. 198: 333-40. 5. Kanayama, N. *et al.* (2005) Analysis of marginal zone B cell development in the mouse with limited B cell diversity: role of the antigen receptor signals in the recruitment of B cells to the marginal zone. J Immunol. 174 (3): 1438-45. 6. Höpken, U.E. *et al.* (2004) Distinct and overlapping roles of CXCR5 and CCR7 in B-1 cell homing and early immunity against bacterial pathogens. J Leukoc Biol. 76 (3): 709-18.

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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 (MCA1212A647)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

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