

ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC)

Package: 50 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [1A29] recognizes CD54 / ICAM1 This antibody recognizes the rat CD54 cell surface antigen, also known as intercellular adhesion molecule-1 (ICAM-1), a 90kD adhesion molecule belonging to the immunoglobulin superfamily. CD54 is a cell surface ligand of the lymphocyte integrin, LFA-1 and is known to play an important role in various cell-cell interactions in the immune system. Recent studies suggest that cross-linking of ICAM-1 using clone 1A29 induces calcium signalling (Etienne, S. et al.). Functionally 1A29 inhibits homotypic aggregation of PHA blasts.
Tested Reactivity	Rat
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	1A29
Isotype	IgG1
Target Name	CD54 / ICAM1
Species	Rat
Immunogen	Rat Ax cells (a HEV derived cell line).
Conjugation	FITC
Alternate Names	CD54; CD antigen CD54; BB2; P3.58; Intercellular adhesion molecule 1; Major group rhinovirus receptor; ICAM-1

Application Instructions

Application table	Application	Dilution
	FACS	Neat - 1:25

Application Note
FACS: Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide and 1% BSA.
Preservative	0.09% Sodium azide
Stabilizer	1% BSA
Concentration	0.1 mg/ml

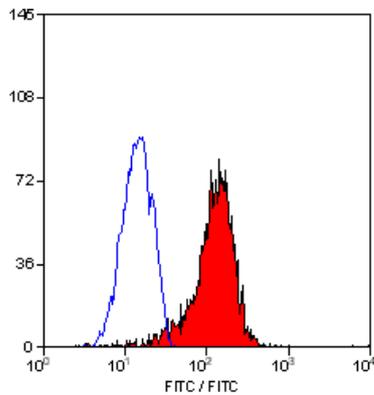
Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

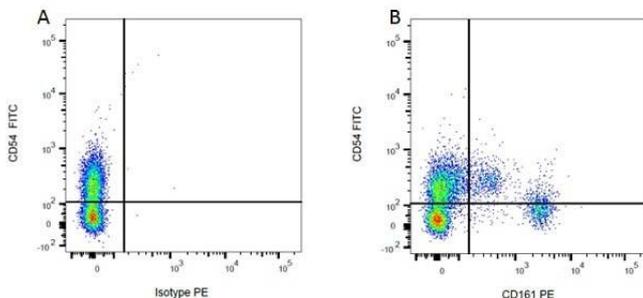
Gene Symbol	Icam1
Gene Full Name	intercellular adhesion molecule 1
Background	This gene encodes a cell surface glycoprotein which is typically expressed on endothelial cells and cells of the immune system. It binds to integrins of type CD11a / CD18, or CD11b / CD18 and is also exploited by Rhinovirus as a receptor. [provided by RefSeq, Jul 2008]
Function	ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation (By similarity). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Cytotoxic T Cell Surface Study antibody
Calculated Mw	58 kDa
PTM	Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis.

Images



ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC) FACS image

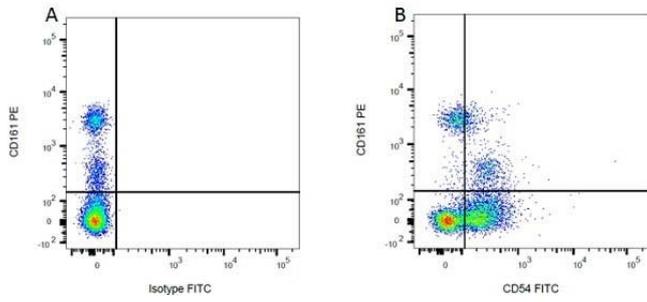
Flow Cytometry: Stimulated Rat spleen cells stained with ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC).



ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC) FACS image

Flow Cytometry: Figure A. ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC) and RPE conjugated Mouse IgG1 isotype control. Figure B. ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC) and RPE conjugated Mouse anti Rat CD161. All experiments performed on red cell lysed Rat blood gated on mononuclear cells.

ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC) FACS image



Flow Cytometry: Figure A. RPE conjugated Mouse anti Rat CD161 and FITC conjugated Mouse IgG1 isotype control. Figure B. RPE conjugated Mouse anti Rat CD161 and ARG22608 anti-CD54 / ICAM1 antibody [1A29] (FITC). All experiments performed on red cell lysed Rat blood gated on mononuclear cells.