

Product datasheet

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ARG22605 anti-CD54 / ICAM1 antibody [1A29]

Package: 100 μg Store at: -20°C

Summary

Product Description 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, IHC-Fr, IHC-P, IP, WB

Host Mouse

Clonality Monoclonal

Clone 1A29 Isotype IgG1

Target Name CD54 / ICAM1

Species Rat

Immunogen Rat Ax cells (a HEV derived cell line).

Conjugation Un-conjugated

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	1:25 - 1:50
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	FACS: Use 10ul of the suggested working dilution to label 10^6 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 and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. 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]

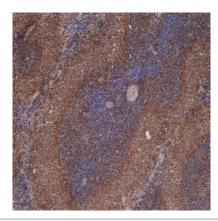
Research Area Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System

antibody; Cytotoxic T Cell Surface Study antibody

Calculated Mw 58 kDa

PTM Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis.

Images



ARG22605 anti-CD54 / ICAM1 antibody [1A29] IHC-Fr image

Immunohistochemistry: Frozen Rat spleen stained with ARG22605 anti-CD54 / ICAM1 antibody [1A29].