

## ARG23221 anti-CD54 / ICAM1 antibody [3E2B] (azide free)

Package: 250 µg

Store at: -20°C

### Summary

Product Description	Azide free Hamster Monoclonal antibody [3E2B] recognizes CD54 / ICAM1 Hamster anti Mouse CD54 antibody, clone 3E2B recognizes murine Intercellular adhesion molecule 1, also known as ICAM-1, CD54, MALA-2 or MyD10. CD54 is a 537 amino acid ~89kDa single pass type I transmembrane glycoprotein bearing five Ig-like C2 type domains. Two isoforms, differing at the N-terminal signal peptide sequence and flanking end terminal domain of the processed molecule are generated by alternative splicing(UniProt P13577) . CD45 is a counter-receptor for LFA-1 (Diamond et al. 1990)Murine CD54 is expressed at low levels on T-cells, B-cells, monocytes and endothelial cells but can be induced strongly by a number of stimuli, including UV radiation (Tang and Udey 1991).
Tested Reactivity	Ms
Tested Application	ELISA, FACS, FuncSt, IHC-Fr
Host	Hamster
Clonality	Monoclonal
Clone	3E2B
Isotype	IgG
Target Name	CD54 / ICAM1
Antigen Species	Mouse
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
	ELISA	Assay-dependent
	FACS	neat
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
Application Note	FACS: Use 10 µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100 µl. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Calculated Mw	58 kDa	

### Properties

Form	Liquid
Purification	Purification with Protein G.

Buffer	PBS.
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

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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