

# Anti-Mouse ICAM-1 (BE29G1) In Vivo Antibody - Low Endotoxin

**Bulk anti-ICAM-1 In Vivo Antibody - Low Endotoxin (BE29G1)**

## **Product Benefits:**

ichorbio's anti-ICAM-1 In Vivo Antibody - Low Endotoxin (BE29G1) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

## **Target:**

ICAM-1

## **Clone:**

BE29G1

## **Isotype:**

Rat IgG2a

## **Other Names:**

Intercellular adhesion molecule 1, Icam1, MALA-2, MyD10, CD54

## **Uniprot:**

[P13597](#)

## **Host:**

Rat

## **Species Reactivity:**

Mouse

## **Specificity:**

Anti-ICAM-1 In Vivo Antibody - Low Endotoxin (BE29G1) recognizes the (Mr 95 kD) cell surface glycoprotein known as intracellular adhesion molecule ICAM-1. ICAM-1 is the receptor for LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18).

## **Antigen Distribution:**

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The CD54 antigen is present on endothelial cells, lymphocytes, epithelial cells, dendritic cells and keratinocytes. It has been demonstrated that ICAM-1 enhances T-cell activation.

**Background:**

Intercellular adhesion molecule-1 (ICAM-1) is one of an important cell adhesion molecules (CAMs) family transmembrane glycoprotein and is critical for the firm arrest and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is constitutively present on endothelial cells, but its expression is increased by proinflammatory cytokines. ICAM-1 is a marker of endothelial dysfunction leading to damaging vascular disorders, in umbilical and placental vascular tissue of gestational pregnancies

**Immunogen:**

Purified Recombinant Mouse ICAM-1 (>98%)

**Concentration:**

0.5 mg/ml

**Formulation:**

0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and Azide free.

**Purity:**

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

**Endotoxin:**

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

**Aggregation:**

Aggregation level ? 5%

Aggregation level ? 1%

**Storage:**

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

**Applications:**

Immunoprecipitation, Western Blot, Blocking

**Application Notes:**

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**Blocking:** This antibody blocks the binding LFA-1 (CD11a/CD18) to ICAM-1. The antibody is suitable for studies of inflammation, lymphocyte differentiation, and lymphocyte activation. Each investigator should determine their own optimal working dilution for specific applications.

**Use:**

Products are for research use only.

**Isotype Control:**

[Rat IgG2a In Vivo Isotype Control - Low Endotoxin \[1-1\] \(ICH2244\)](#)