



Mouse Anti-Human CD54 (ICAM-1) Monoclonal antibody, clone R6-5-D6 (CABT-L4364)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The R6-5-D6 monoclonal antibody reacts with human CD54 also known as Intercellular Adhesion Molecule-1 (ICAM-1), is a single-chain transmembrane glycoprotein with a polypeptide core of 55 kDa and a member of the Ig superfamily. CD54 is typically expressed on non-hematopoietic cells such as endothelial cells, thymic epithelial cells, and fibroblasts but can also be expressed on macrophages, T-lymphoblasts, germinal center B cells and dendritic cells. CD54 is a ligand for LFA-1, a receptor found on leukocytes. When activated, leukocytes bind to endothelial cells via CD54/LFA-1 and then transmigrate into tissues. Pro-inflammatory cytokines such as IL-1, TNF and IFN γ induce CD54 expression on endothelial cells and fibroblasts. The R6-5-D6 antibody has been reported to inhibit the interaction of CD54 with leukocytes, thereby decreasing leukocyte adhesion to the vascular endothelium and inflammatory tissue injury.

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|---------------------------|---|
| Target | Human CD54 (ICAM-1) |
| Immunogen | EBV transformed lymphoblast cell line |
| Isotype | IgG2a |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | R6-5-D6 |
| Purification | Protein G purified. Purity>95%. Determined by SDS-PAGE |
| Conjugate | Functional Grade |
| Applications | in vitro T cell stimulation/activation, IF |

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| Molecular Weight | 150 kDa |
| Format | 0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility |
| Concentration | Lot specific |
| Size | 5 mg |
| Buffer | PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04 |
| Preservative | None |
| Storage | The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze. |
| Ship | Wet ice |

BACKGROUND

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| Introduction | cell adhesion molecule; ligand for leukocyte adhesion molecule LFA-1 [RGD, Feb 2006] |
| Keywords | ICAM1;intercellular adhesion molecule 1;CD54;ICAM;ICAM-1; |

GENE INFORMATION

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|------------------------|---|
| Official Symbol | intercellular adhesion molecule 1 |
| Synonyms | ICAM1; intercellular adhesion molecule 1; CD54; ICAM; ICAM-1; |