



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.

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

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

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

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