



Rat Anti-Mouse CD54 (ICAM-1) Monoclonal antibody, clone YN1/1.7.4 (CABT-L4363)

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

PRODUCT INFORMATION

Product Overview

The YN1/1.7.4 monoclonal antibody reacts with mouse CD54 also known as Intercellular Adhesion Molecule-1 (ICAM-1). CD54 is a 90 kDa single-chain transmembrane glycoprotein 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 to facilitate transmigration into tissues. Pro-inflammatory cytokines such as IL-1, TNF and IFN γ induce CD54 expression on endothelial cells and fibroblasts. The YN1/1.7.4 antibody has been shown to neutralize CD54 in vivo and inhibit CXCL1, IFN γ , and IL-17 production and neutrophil infiltration into inflammatory lesions.

Target	Mouse CD54 (ICAM-1)
Immunogen	NS-1 mouse myeloma cells
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	YN1/1.7.4
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo ICAM-1 neutralization, IHC-F, ELISA

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;