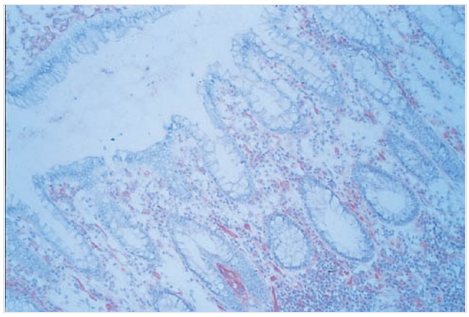
CD54 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD54, Monoclonal Antibody
Full Product Name	CD54 (ICAM-1, Intercellular Adhesion Molecule 1, Human Rhinovirus Receptor, Precursor, BB2, Major Group Rhinovirus Receptor, P3.58) (HRP)
Product Gene Name	anti-CD54 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2Q709
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD54. Inhibits ICAM-1 dependent adhesive interactions.
Preparation and Storage	Store at -20 degree C.
Molecular Weight	57,825 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (10381517..10397291). Location: 19p13.3-p13.2
OMIM	147840
3D Structure	ModBase 3D Structure for P05362
Immunogen	IL-1 beta activated HUVEC (human)
Conjugate	HRP
Product Categories/Family for anti-CD54 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD54 antibody	ELISA (EIA), Flow Cytometry (FC/FACS), Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP)
Related Product Information for anti-CD54 antibody	MBS6243745 is an antibody targeting CD54. Also known as CD54 (ICAM-1, Intercellular Adhesion Molecule 1, Human Rhinovirus Receptor, Precursor, BB2, Major Group Rhinovirus Receptor, P3.58) (HRP). Reactive in Human. Host: Mouse.
Product References and Citations for anti-CD54 antibody	Jarvis, G. et al., Infection and Immunity (1999) 67:1149-1156
Other Notes	Small volumes of anti-CD54 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-CD54 antibody
Staining of normal human gut mucosa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD54. It may not necessarily be applicable to this product.

NCBI GI #	167466198
NCBI GeneID	3383
NCBI Accession #	NP_000192.2
UniProt Primary Accession #	P05362
UniProt Secondary Accession #	Q5NKV7; Q96B50; B2R6M3
UniProt Related Accession #	P05362
GenBank Nucleotide #	NM_000201.1
NCBI Official Full Name	intercellular adhesion molecule 1
NCBI Official Synonym Full Names	intercellular adhesion molecule 1
NCBI Official Symbol	ICAM1
NCBI Official Synonym Symbols	BB2; CD54; P3.58
UniProt Protein Name	Intercellular adhesion molecule 1
UniProt Synonym Protein Names	Major group rhinovirus receptor
Protein Family	Intercellular adhesion molecule
UniProt Gene Name	ICAM1
UniProt Synonym Gene Names	ICAM-1
UniProt Entry Name	ICAM1_HUMAN
NCBI Protein Information	intercellular adhesion molecule 1; ICAM-1; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor
NCBI Summary for CD54	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]

UniProt Comments for CD54	ICAM1: a type I membrane protein of the immunoglobulin superfamily. Is a ligand for the leukocyte adhesion LFA-1 protein (Integrin alpha-L/beta-2) and a Rhinovirus receptor. Typically expressed on endothelial cells and cells of the immune system. ICAM1 binds to integrins of type CD11a / CD18, or CD11b / CD18. Its expression is activated by p53 in an NF-kappaB-independent manner. Induced by TNFalpha in a process that involves IKKbeta. Protein type: Cell adhesion; Membrane protein, integral; Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 19p13.3-p13.2 Cellular Component: extracellular space; cell surface; focal adhesion; membrane; integral to plasma membrane; plasma membrane; immunological synapse; external side of plasma membrane Molecular Function: integrin binding; viral receptor activity; protein binding; transmembrane receptor activity; receptor activity Biological Process: entry of virus into host cell; extracellular matrix organization and biogenesis; positive regulation of nitric oxide biosynthetic process; T cell antigen processing and presentation; response to organic cyclic substance; activation of NF-kappaB transcription factor; positive regulation of cellular extravasation; regulation of cell shape; leukocyte adhesion; cellular response to nutrient levels; sensory perception of sound; ovarian follicle development; T cell activation via T cell receptor contact with antigen bound to MHC molecule on antigen presenting cell; membrane to membrane docking; response to sulfur dioxide; cell adhesion; regulation of leukocyte mediated cytotoxicity; acute inflammatory response to antigenic stimulus; regulation of cell adhesion; response to drug; virion attachment, binding of host cell surface receptor; regulation of immune response; negative regulation of calcium ion transport; cytokine and chemokine mediated signaling pathway; response to amphetamine; cell aging; response to amino acid stimulus; heterophilic cell adhesion; positive regulation of peptidyl-tyrosine phosphorylation; response to ethanol; response to copper ion; positive regulation of actin filament polymerization; positive regulation of vasoconstriction; cell adhesion mediated by integrin; adhesion to host; response to ionizing radiation; leukocyte migration Disease: Malaria, Susceptibility To
Research Articles on CD54	**1.** A possible paracrine role of released platelet miR-320b on endothelial cell intercellular adhesion molecule-1 expression was shown.
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