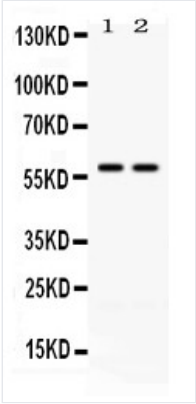
CD2 Antibody – Rabbit Polyclonal

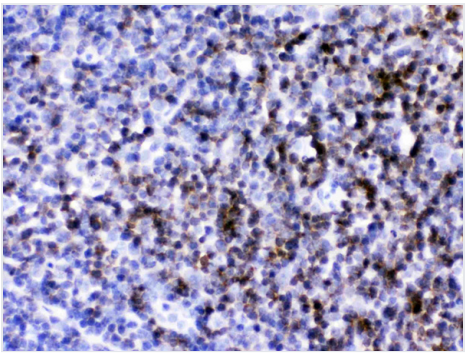
PRODUCT OVERVIEW

Product Name	CD2, Polyclonal Antibody
Full Product Name	Anti-CD2 Antibody
Product Gene Name	anti-CD2 antibody
Product Synonym Names	CD2 antigen; CD2 molecule; LFA2; LFA-2; Rosette receptor; SRBC; T cell surface antigen CD2; T11; Tcell surface antigen CD2; T-cell surface antigen CD2; T-cell surface antigen T11; P08920 ; T-cell surface antigen CD2; CD2 molecule
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse No cross reactivity with other proteins.
Form/Format	Lyophilized
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	38,415 Da
3D Structure	ModBase 3D Structure for P08920
Immunogen	E Coli-derived mouse CD2 recombinant protein (Position: R23-S203). Mouse CD2 shares 49.7% and 73.3% amino acid (aa) sequence identity with human and rat CD2, respectively.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-CD2 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-CD2 antibody	Western Blot: 0.1-0.5mug/ml; Tested Species: Mouse Immunohistochemisry Paraffin: 0.5-1mug/ml; Tested Species: Mouse **Tested Species:**In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Related Product Information for anti-CD2 antibody	Rabbit IgG polyclonal antibody for T-cell surface antigen CD2 (CD2) detection. Background: CD2 (cluster of differentiation 2) is a cell adhesion molecule found on the surface of T cells and natural killer (NK) cells. It has also been called T-cell surface antigen T11/Leu-5, LFA-2, LFA-3 receptor, erythrocyte receptor and rosette receptor. Monoclonal antibodies directed against CD2 inhibit the formation of rosettes with sheep erythrocytes, indicating that CD2 is the erythrocyte receptor or is closely associated with it. CD2 is one of the earliest T-cell markers, being present on more than 95% of thymocytes. Due to its structural characteristics, CD2 is a member of the immunoglobulin superfamily; it possesses two immunoglobulin-like domains in its extracellular portion. The localization of CD2 to 1p13 is established by in situ hybridization. CD2 interacts with other adhesion molecules, such as lymphocyte function-associated antigen-3 (LFA-3/CD58) in humans, or CD48 in rodents, which are expressed on the surfaces of other cells. With the use of transgenic mice, such an LCR is identified within the 3-prime flanking region of the human CD2 gene.

Product References and Citations for anti-CD2 antibody	1. Brown, M. H., Gorman, P. A., Sewell, W. A., Spurr, N. K., Sheer, D., Crumpton, M. J. The gene coding for the human T-lymphocyte CD2 antigen is located on chromosome 1p. Hum. Genet. 76: 191-195, 1987. 2. Clayton, L. K., Ramachandran, H., Pravtcheva, D., Chen, Y.-F., Diamond, D. J., Ruddle, F. H., Reinherz, E. L. The gene for T11 (CD2) maps to chromosome 1 in humans and to chromosome 3 in mice. J. Immun. 140: 3617-3621, 1988. 3. Kingsmore, S. F., Watson, M. L., Moseley, W. S., Seldin, M. F. Physical linkage of genes encoding the lymphocyte adhesion molecules CD2 and its ligand LFA-3. Immunogenetics 30: 123-125, 1989.
Other Notes	Small volumes of anti-CD2 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.
Searchable Terms for CD2 purchase	MBS178429 is an antibody targeting CD2. Reactive in Mouse No cross reactivity with other proteins.. Host: Rabbit.



Western Blot (WB) of anti-CD2 antibody
Western blot analysis of CD2 expression in mouse cardiac muscle extract (lane 1) and HEPA whole cell lysates (lane 2). CD2 at 58KD was detected using rabbit anti- CD2 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.



Immunohistochemistry (IHC) of anti-CD2 antibody
CD2 was detected in paraffin-embedded sections of mouse lymphaden tissues using rabbit anti- CD2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD2. It may not necessarily be applicable to this product.

NCBI GI #	7304949
NCBI GeneID	12481
NCBI Accession #	NP_038514.1
UniProt Primary Accession #	P08920
UniProt Secondary Accession #	Q61394
UniProt Related Accession #	P08920
GenBank Nucleotide #	NM_013486.2
NCBI Official Full Name	T-cell surface antigen CD2
NCBI Official Synonym Full Names	CD2 antigen
NCBI Official Symbol	Cd2
NCBI Official Synonym Symbols	Ly37; LFA-2; Ly-37
UniProt Protein Name	T-cell surface antigen CD2
UniProt Synonym Protein Names	LFA-2; LFA-3 receptor; Lymphocyte antigen 37; Ly-37; T-cell surface antigen T11/Leu-5; CD_antigen: CD2
Protein Family	T-cell surface antigen
UniProt Gene Name	Cd2

UniProt Synonym Gene Names	Ly-37; Ly-37
UniProt Entry Name	CD2_MOUSE
NCBI Protein Information	T-cell surface antigen CD2
UniProt Comments for CD2	CD2: CD2 interacts with lymphocyte function-associated antigen (LFA-3) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T- cells, the cytoplasmic domain is implicated in the signaling function. Protein type: Cell surface; Apoptosis; Membrane protein, integral Cellular Component: anchored to plasma membrane; cell surface; external side of plasma membrane; extracellular region; intercellular junction; internal side of plasma membrane; lipid raft; protein complex Molecular Function: antigen binding; glycoprotein binding; protein binding; protein homodimerization activity; protein kinase binding; protein self-association; receptor binding; receptor tyrosine kinase binding Biological Process: cell-cell adhesion; heterotypic cell-cell adhesion; positive regulation of tumor necrosis factor production; T cell activation
Research Articles on CD2	**1.** Ptpn22 and Cd2 Variations Are Associated with Altered Protein Expression and Susceptibility to Type 1 Diabetes
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