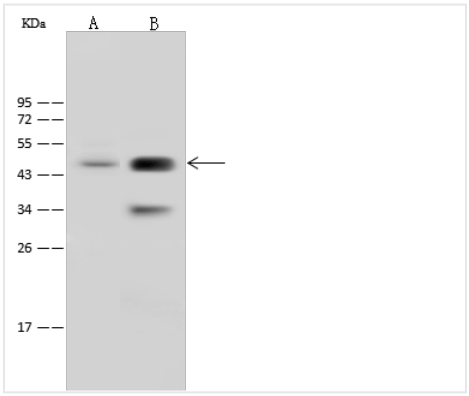
CD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD2, Polyclonal Antibody
Full Product Name	Anti-CD2 Antibody, Rabbit Polyclonal
Product Gene Name	anti-CD2 antibody
Product Synonym Names	CD2 Antibody, Rabbit PAb, Antigen Affinity Purified; CD2 molecule; Anti-LFA-2 Antibody; Anti-Ly-37 Antibody; Anti-Ly37 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse CD2
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	38,415 Da
3D Structure	ModBase 3D Structure for P08920
Immunogen	Recombinant Mouse CD2 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse CD2 (rM CD2). CD2 specific IgG was purified by Mouse CD2 affinity chromatography.
Applications Tested/Suitable for anti-CD2 antibody	Western Blot (WB)
Application Notes for anti-CD2 antibody	WB: 1:500-1:2000
Related Product Information for anti-CD2 antibody	T-cell surface antigen CD2, also known as T-cell surface antigen T11/Leu-5, and SRBC, is a single-pass type I membrane protein. It contains one Ig-like C2-type domain and one Ig-like V-type domain. CD2 is a cell adhesion molecule expressed on T cells and is recognized as a target for CD48 (rats) and CD58 (humans). CD2 has been shown to set quantitative thresholds in T cell activation both in vivo and in vitro. Further, intracellular CD2 signaling pathways and networks are being discovered by the identification of several cytosolic tail binding proteins. 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 of CD2 is implicated in the signaling function. The complex of CD2 and CD58 also plays an important role in enhancing the adhesion of T lymphocytes to target cells, and promoting hyperplasia and activation of T lymphocytes. As a cell surface glycoprotein, CD2 expressed on most human T cells and natural killer (NK) cells and plays an important role in mediating cell adhesion in both T-lymphocytes and in signal transduction.

Product References and Citations for anti-CD2 antibody	Yang JJ, et al. (2001) Structural biology of the cell adhesion protein CD2: alternatively folded states and structure-function relation. Curr Protein Pept Sci. 2(1): 1-17. Wilkins AL, et al. (2003) Structural biology of the cell adhesion protein CD2: from molecular recognition to protein folding and design. Curr Protein Pept Sci. 4(5): 367-73. McNerney ME, et al. (2006) The CD2 family of natural killer cell receptors. Curr Top Microbiol Immunol. 298: 91-120.
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	MBS8111716 is an antibody targeting CD2. Also known as Anti-CD2 Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-CD2 antibody
Anti-CD2 rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: Mouse brain tissue lysate Lane C: Mouse spleen tissue lysate Lane D: Mouse brain tissue lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size:39 kDa Observed band size:44 kDa

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: Membrane protein, integral; Apoptosis; Cell surface Cellular Component: internal side of plasma membrane; cell surface; protein complex; anchored to plasma membrane; membrane; integral to membrane; extracellular region; intercellular junction; lipid raft; external side of plasma membrane Molecular Function: protein binding; protein homodimerization activity; protein self-association; receptor activity; glycoprotein binding; receptor tyrosine kinase binding; protein kinase binding; antigen binding; receptor binding Biological Process: heterotypic cell-cell adhesion; cell-cell adhesion; T cell activation; cell adhesion; positive regulation of tumor necrosis factor production
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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