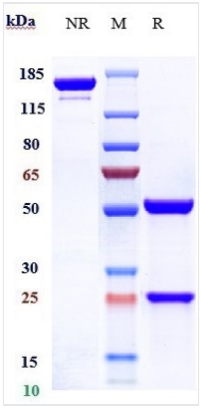
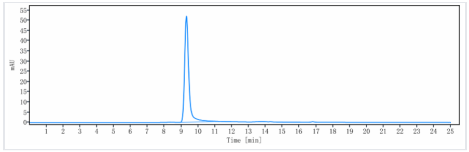
CD2 Recombinant Antibody – CHO Monoclonal

PRODUCT OVERVIEW

Product Name	CD2, Recombinant Antibody
Full Product Name	Anti-CD2 Reference Antibody (siplizumab)
Product Gene Name	CD2 recombinant antibody
Clonality	Monoclonal
Isotype	IgG1
Host	CHO Cell
Species Reactivity	Human, Cynomolgus
Form/Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.
Concentration	1mg/ml (lot specific)
Specificity	CD2
Preparation and Storage	Store at -80 degree C for 2 years under sterile conditions; -20 degree C for 1 year under sterile conditions; Avoid repeated freeze-thaw cycles.
Molecular Weight	39,448 Da
OMIM	186990
3D Structure	ModBase 3D Structure for P06729
Endotoxin	< 0.001EU/ug, determined by LAL method.
Conjugation	Unconjugated
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for CD2 recombinant antibody	Primary Antibodies
Applications Tested/Suitable for CD2 recombinant antibody	ELISA (EIA), Flow Cytometry (FC/FACS), Kinetics, Functional Assay (FUNC), Animal Model
Related Product Information for CD2 recombinant antibody	MBS9247134 is a recombinant antibody targeting CD2. Also known as Anti-CD2 Reference Antibody (siplizumab). Reactive in Human, Cynomolgus. Host: CHO Cell.
Other Notes	Small volumes of CD2 recombinant 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.



SDS-Page of CD2 recombinant antibody
Anti-CD2 Reference Antibody (siplizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



Testing Data of CD2 recombinant antibody
The purity of Anti-CD2 Reference Antibody (siplizumab)is more than 100% ,determined by SEC-HPLC.

ADDITIONAL DETAILS

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

NCBI GI #	156071472
NCBI GeneID	914
NCBI Accession #	NP_001758.2
UniProt Primary Accession #	P06729
UniProt Secondary Accession #	Q96TE5
UniProt Related Accession #	P06729
GenBank Nucleotide #	NM_001767.3
NCBI Official Full Name	T-cell surface antigen CD2
NCBI Official Synonym Full Names	CD2 molecule
NCBI Official Symbol	CD2
NCBI Official Synonym Symbols	T11; SRBC; LFA-2
UniProt Protein Name	T-cell surface antigen CD2
UniProt Synonym Protein Names	Erythrocyte receptor; LFA-2; LFA-3 receptor; Rosette receptor; T-cell surface antigen T11/Leu-5; CD_antigen: CD2
Protein Family	T-cell surface antigen
UniProt Gene Name	CD2
UniProt Synonym Gene Names	SRBC
UniProt Entry Name	CD2_HUMAN
NCBI Protein Information	T-cell surface antigen CD2; CD2 antigen (p50), sheep red blood cell receptor; LFA-3 receptor; T-cell surface antigen T11/Leu-5; erythrocyte receptor; lymphocyte-function antigen-2; rosette receptor
NCBI Summary for CD2	CD2 is a surface antigen of the human T-lymphocyte lineage that is expressed on all peripheral blood T cells (summarized by Sewell et al., 1986 [PubMed 3490670]). It is one of the earliest T-cell markers, being present on more than 95% of thymocytes; it is also found on some natural killer cells but not on B lymphocytes. 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.[supplied by OMIM, Jul 2010]

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 Chromosomal Location of Human Ortholog: 1p13.1 Cellular Component: internal side of plasma membrane; cell surface; anchored to plasma membrane; integral to plasma membrane; plasma membrane; extracellular region; intercellular junction; external side of plasma membrane Molecular Function: protein binding; protein homodimerization activity; receptor activity; receptor binding Biological Process: heterotypic cell-cell adhesion; cell-cell adhesion; cell surface receptor linked signal transduction; T cell activation; apoptosis; natural killer cell activation; regulation of T cell differentiation; blood coagulation; lipid raft polarization; positive regulation of tumor necrosis factor production; leukocyte migration; positive regulation of myeloid dendritic cell activation
Research Articles on CD2	**1.** Although sMCs displayed immunoreactivity for one of the neoplastic antigens in the majority of SM patients, the aberrant CD2 and/or CD25 expression on sMCs is not as indicative of SM as the BMMC immunophenotype.
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