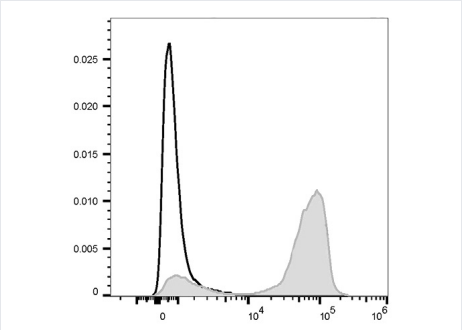
CD2 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD2, Antibody
Full Product Name	PerCP/Cyanine5.5 Anti-Human CD2 Antibody [G11]
Product Gene Name	anti-CD2 antibody
Product Synonym Names	LFA-2; T11; SRBC-R
Isotype	IgG2a, kappa
Clone Number	G11
Host	Mouse
Species Reactivity	Human
Preparation and Storage	This product can be stored at 2-8 degree C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Matching Pairs	Antibody: CD2 Clone #G11 (MBS2584957) Isotype Control: IgG2a, kappa Clone #C1.18.4 (MBS2557765)
Molecular Weight	39,448 Da
OMIM	186990
3D Structure	ModBase 3D Structure for P06729
Conjugation	PerCP/Cyanine 5.5
Product Categories/Family for anti-CD2 antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD2 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD2 antibody	MBS2584957 is an antibody targeting CD2. Also known as PerCP/Cyanine5.5 Anti-Human CD2 Antibody [G11]. Reactive in Human. Host: Mouse.
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.



Flow Cytometry (FC/FACS) of anti-CD2 antibody
Staining of normal human peripheral blood cells with PerCP/Cyanine5.5 Anti-Human CD2 Antibody[G11] (filled gray histogram) or PerCP/Cyanine5.5 Mouse IgG2a, ? Isotype Control (empty black histogram). Cells in the lymphocytes gate were used for analysis.

ADDITIONAL DETAILS

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

NCBI GI #	914
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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