# T-Cell Surface Antigen CD2 (CD2) Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | T-cell surface antigen CD2, Recombinant Protein |
| **Full Product Name** | T-cell surface antigen CD2 |
| **Product Gene Name** | Cd2 recombinant protein |
| **Sequence** | RDSGTVWGAL GHGINLNIPN FQMTDDIDEV RWERGSTLVA EFKRKMKPFL KSGAFEILAN GDLKIKNLTR DDSGTYNVTV YSTNGTRILD KALDLRILEM VSKPMIYWEC SNATLTCEVL EGTDVELKLY QGKEHLRSLR QKTMSYQWTN LRAPFKCKAV NRVSQESEME VVNCPEKGLP LYLIVGVSAG GLLLVFFGAL FIFCICKRKK RNRRRKGEEL EIKASRMSTV ERGPKPHSTQ ASAPASQNPV ASQAPPPPGH HLQTPGHRPL PPSHRNREHQ PKKRPPPSGT QVHQQKGPPL PRPRVQPKPP CGSGDVSLPP PN |
| **Host** | Cell Free Expression |
| **Form/Format** | Liquid containing glycerol |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.<br>Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. |
| **Molecular Weight** | 38,414 Da |
| **Sequence Positions** | 23-344aa; full length protein |
| **3D Structure** | ModBase 3D Structure for P08921 |
| **Species** | Rattus norvegicus (Rat) |
| **Product Categories/Family for Cd2 recombinant protein** | Transmembrane Protein |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for Cd2 recombinant protein** | This is a recombinant transmembrane protein expressed in a cell-free expression system. |
| **Other Notes** | Small volumes of Cd2 recombinant protein 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** | MBS7042401 is a recombinant protein targeting Cd2. Also known as T-cell surface antigen CD2. Host: Cell Free Expression. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cd2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6978627 |
| **NCBI GeneID** | 497761 |
| **NCBI Accession #** | NP_036962.1 |
| **UniProt Primary Accession #** | P08921 |
| **UniProt Related Accession #** | P08921 |
| **GenBank Nucleotide #** | NM_012830.1 |

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| **NCBI Official Full Name** | T-cell surface antigen CD2 |
| **NCBI Official Synonym Full Names** | Cd2 molecule |
| **NCBI Official Symbol** | Cd2 |
| **NCBI Official Synonym Symbols** | CD2R; LFA2; OX34; LFA-2; OX-34 |
| **UniProt Protein Name** | T-cell surface antigen CD2 |
| **UniProt Synonym Protein Names** | LFA-2; LFA-3 receptor; OX-34 antigen; T-cell surface antigen T11/Leu-5; CD_antigen: CD2 |
| **Protein Family** | T-cell surface antigen |
| **UniProt Gene Name** | Cd2 |
| **UniProt Entry Name** | CD2_RAT |
| **NCBI Protein Information** | T-cell surface antigen CD2 |
| **NCBI Summary for Cd2** | cell surface antigen involved in T lymphocyte activation and proliferation; interacts with CD5 [RGD, Feb 2006] |
| **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.<br><br>Protein type: Cell surface; Apoptosis; Membrane protein, integral<br><br>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<br><br>Molecular Function: antigen binding; glycoprotein binding; protein homodimerization activity; protein kinase binding; protein self-association; receptor binding; receptor tyrosine kinase binding<br><br>Biological Process: cell-cell adhesion; heterotypic cell-cell adhesion; positive regulation of tumor necrosis factor production; T cell activation |
| **Research Articles on Cd2** | **1.** CD2/CD28 costimulation is the strongest T cell stimulus in vivo in rat lamina propria. |
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