

## CD2 Human

**Description:** CD2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 209 amino acids (25-209 a.a) and having a molecular mass of 23.8kDa. CD2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1344

For research use only.

**Synonyms:** T-cell surface antigen CD2, T-cell surface antigen T11/Leu-5, LFA-2, LFA-3 receptor, Erythrocyte receptor, Rosette receptor, CD2 antigen, CD2, T11, SRBC.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMKEITNA LETWGALGQD  
INLDIPSFQM SDDIDDIKWE KTSDKKKIAQ FRKEKETFKK KDTYKLFKNG TLKIKHLKTD  
DQDIYKVSII DTKGKNVLEK IFDLKIQERV SKPKISWTCI NTTLTCEVMN GTDPELNLYQ  
DGKHLKLSQR VITHKWTTSLSAKFKCTAGN KVSKESSVEP VSCPEKGLD.

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

CD2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

CD2 which is also known as E-rosette receptor, T11 and lymphocyte function antigen-2 (LFA-2) is expressed on T cells, thymocytes, and subset of natural killer cells. Human CD2 functions as the receptor for sheep erythrocytes, human CD58 (LFA-3), and CD15s (Sialyl Lewis X). p56lck, p59fyn, CD3eta and CD3epsilon are tyrosine-phosphorylated after CD2 stimulation. CD2 plays a role in T cell activation, T- or NK-cell-mediated cytotoxicity, apoptosis in activated peripheral T cells, and regulation of T cell energy.

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