

## CD4 Human (125-202)

**Description:** CD-4 Human Recombinant is fused with a 4kDa His Tag and encoding amino acids 125-202, having a total molecular weight of 19 kDa.

**Catalog #:** CYPs-322

**Synonyms:** gp55, HLA-2, L3 / T4, Ly-4, T cell antigen T4/LEU3, T4, sCD4.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile lyophilized powder.

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

Each mg contains 1X PBS.

**Stability:**

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles.

**Usage:**

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

**Applications:**

Protein Assay. Antibody Production. Western Blotting.

**Solubility:**

It is recommended to reconstitute the lyophilized CD-4 (125-202) in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

CD4, a single chain transmembrane glycoprotein, is found on a T cell subset (helper/inducer) representing 45% of peripheral blood lymphocytes. It is also present on 80% of thymocytes and at a lower level on monocytes. It is involved in recognition of antigen presented along with MHC class II by APCs. It serves as receptor for HIV. Antibody to CD4 recognizes T-helper cells required for recognition of class II antigens. It reacts with ~60% of peripheral blood E rosette-positive (E+) cells while showing negligible reactivity with E- cells, monocytes, granulocytes, EBV-transformed B cell lines, and mouse splenocytes.

**References:**

Title: Reduced Monomeric CD4 Is the Preferred Receptor for HIV. Publication:  
10.1074/jbc.M110.190579 December 24, 2010 The Journal of Biological Chemistry, 285,  
40793-40799. Link: <http://www.jbc.org/content/285/52/40793.full#fn-1>

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