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CD4 Human (125-202)

Catalog #:CYPS-322

For research use only.

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.

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

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 -20oC to -80oC. 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 drµgs, 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 H2O 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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