

## **Human CD4 Biotinylated Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF379

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CD4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human CD4 (R&D Systems, Catalog # 514-CD) Lys26-Trp390 Accession # P01730
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
APPLICATIONS Please Note: Optimal diluti	ons should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.  Recommended Sample Concentration
Western Blot	0.1 μg/mL Recombinant Human CD4 (Catalog # 514-CD)
PREPARATION AND S	STORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  • 12 months from date of receipt, -20 to -70 °C as supplied.

## BACKGROUND

CD4 is an approximately 55 kDa type I membrane glycoprotein that is expressed predominantly on most thymocytes and a subset of mature T lymphocytes. In humans, CD4 is also expressed to a lesser extent on monocytes and macrophage related cells. Human CD4 cDNA encodes a 458 amino acid (aa) residue precursor protein with a 25 aa residue signal peptide, a 371 aa residue extracellular region containing four immunoglobulin homology domains, a 24 aa residue transmembrane domain and a 38 aa residue cytoplasmic domain. CD4 is a coreceptor required for T cell recognition of antigens that are presented by class II major histocompatibility complexes. CD4 has been shown to be a coreceptor of HIV entry and specifically binds gp120, the external envelope glycoprotein of HIV.

1 month, 2 to 8 °C under sterile conditions after reconstitution.
 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## References

1. Capon, D.I. et al. (1991) Annu. Rev. Immunol. 9:649.

