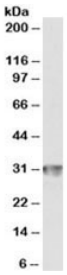
CD4 Goat Polyclonal Antibody / CD4 Antibody (Goat Host) (R34546)

Catalog No.	Formulation	Size
R34546-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	920
Applications	Western blot: 1-3ug/ml ELISA (peptide) LOD: 1:128000
Limitations	This CD4 antibody is available for research use only.



CD4 Antibody for WB. Western blot analysis of CD4 antibody in human spleen lysate. Lane 1: spleen lysate. A band is detected at approximately 31 kDa, which may represent a processed or truncated form of CD4, while the full-length glycosylated CD4 protein is typically observed at a higher apparent molecular weight due to post-translational modification.

Description

CD4 molecule (CD4) is a cell surface glycoprotein expressed primarily on T helper lymphocytes, with additional expression on monocytes, macrophages, and dendritic cells, where it functions as a co-receptor for antigen recognition through interaction with major histocompatibility complex class II molecules. CD4 Goat Polyclonal Antibody provides a host-specific detection strategy for CD4, enabling flexible integration into immunodetection experiments that require goat-derived primary antibodies for optimized assay design and signal separation.

CD4 antibody, also known as T helper cell marker antibody or CD4 surface receptor antibody, is widely used to identify CD4-positive immune cells across a variety of experimental systems. CD4 Goat Polyclonal Antibody is particularly advantageous in studies where host species selection is critical, allowing compatibility with anti-goat secondary antibodies and enabling simultaneous use alongside primary antibodies raised in mouse or rabbit. This makes CD4 Goat Polyclonal Antibody especially useful in multi-target detection experiments where avoiding host overlap is essential for clear signal discrimination.

The use of a goat-derived CD4 antibody expands experimental flexibility by supporting multiplex detection strategies in which multiple proteins are analyzed within the same sample. CD4 Goat Polyclonal Antibody can be incorporated into multi-color or multi-marker detection panels, enabling researchers to combine CD4 staining with additional markers of immune cell identity, activation, or differentiation. This host-based separation allows more complex experimental designs without compromising specificity or signal clarity.

As a polyclonal antibody, CD4 Goat Polyclonal Antibody recognizes multiple epitopes across the CD4 protein, increasing the likelihood of successful detection under varying experimental conditions. This multi-epitope binding can enhance signal strength and improve detection sensitivity, particularly in samples where epitope accessibility may be affected by fixation, denaturation, or protein conformation. CD4 Goat Polyclonal Antibody therefore supports robust detection of CD4 across different sample types and preparation methods.

CD4 is localized to the plasma membrane and plays a central role in T cell receptor signaling and immune activation. CD4 Goat Polyclonal Antibody targets CD4 in research applications, enabling detection of CD4-expressing immune cells while supporting flexible assay configuration, multiplex compatibility, and host-specific detection strategies in immunological and cell biology studies.

A full range of CD4 antibody reagents for immunohistochemistry, western blot, and flow cytometry is available on our CD4 Antibody collection page.

Application Notes

Optimal dilution of the CD4 antibody should be determined by the researcher.

1. This CD4 Goat Polyclonal Antibody will detect isoforms 1 and 2.

Immunogen

Amino acids KNKEVSVKRVTQDPK were used as the immunogen for this CD4 Goat Polyclonal Antibody.

Storage

Aliquot and store the CD4 antibody at -20oC.

Alternate Names

CD4 goat antibody, goat anti-CD4 antibody, CD4 polyclonal antibody goat, CD4 multiplex detection antibody

Copyright © NSJ Bioreagents. All rights reserved.