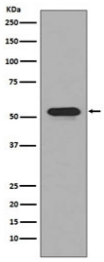
# CD4 Antibody for WB / Membrane Protein Detection Antibody [clone DOE-3] (RQ4976)

| Catalog No. | Formulation | Size |
|---|---|---|
| RQ4976 | Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA | 100 ul |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-2 weeks |
| **Species Reactivity** | Human |
| **Predicted Reactivity** | Rat |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Rabbit Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Name** | DOE-3 |
| **Purity** | Affinity purified |
| **UniProt** | P01730 |
| **Applications** | Western blot: 1:500-1:2000 |
| **Limitations** | This CD4 antibody is available for research use only. |




CD4 Antibody for WB. Western blot analysis of CD4 antibody in human THP-1 cell lysate. Lane 1: THP-1 cell lysate. A band is detected at approximately 50-55 kDa, consistent with the predicted molecular weight of CD4, with migration reflecting the glycosylated form of this membrane-associated receptor and supporting detection of membrane protein-associated CD4.

## Description

CD4 molecule (CD4) is a membrane-associated glycoprotein expressed on the surface of T helper lymphocytes and additional immune cell populations, where it functions as a co-receptor in antigen recognition and immune signaling. CD4 Antibody for WB is used in western blot applications to detect this membrane protein in cell lysates, enabling detailed

analysis of protein expression and structural features associated with membrane localization and post-translational modification.

CD4 antibody, also referred to as CD4 receptor antibody or T helper cell surface marker antibody, is particularly valuable for western blot detection of membrane proteins that exhibit characteristic migration behavior due to glycosylation. CD4 Antibody for WB enables visualization of CD4 protein following SDS-PAGE separation, supporting confirmation of expression and assessment of protein integrity in experimental samples. Western blot analysis of membrane proteins requires careful interpretation of band patterns, and CD4 provides a well-defined example of glycosylation-dependent mobility shifts.

CD4 has a predicted molecular weight of approximately 55 kDa based on its primary sequence, but extensive glycosylation results in an increased apparent molecular weight when analyzed by SDS-PAGE. CD4 Antibody for WB commonly detects bands in the range of approximately 55-60 kDa, with additional higher molecular weight bands corresponding to different glycosylated forms of the protein. These higher bands are consistent with known post-translational modification patterns and reflect the biochemical properties of membrane-associated glycoproteins.

In western blot analysis, CD4 Antibody for WB supports investigation of membrane protein expression and processing, allowing researchers to evaluate differences in glycosylation state, protein maturation, and receptor stability. Detection of multiple bands corresponding to CD4 can provide insight into protein processing pathways and cellular regulation of membrane receptor expression. CD4 Antibody for WB is therefore useful not only for confirming protein presence but also for interpreting structural and biochemical characteristics of CD4 in different experimental conditions.

As a membrane protein, CD4 requires appropriate lysis and solubilization conditions for efficient extraction and detection. CD4 Antibody for WB performs effectively in lysates prepared using detergents that preserve membrane protein solubility, enabling consistent detection across sample types. A CD4 antibody can be used in western blot to support detection of membrane-associated CD4 protein, enabling identification of characteristic glycoprotein band patterns and supporting detailed analysis of immune receptor expression in research applications.

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 for WB / Membrane Protein Detection Antibody should be determined by the researcher.

## Immunogen

A synthetic peptide specific to human CD4 was used as the immunogen for the CD4 Antibody for WB / Membrane Protein Detection Antibody.

## Storage

Store the CD4 antibody at -20oC.

## Alternate Names

CD4 membrane protein antibody, CD4 WB antibody, CD4 glycoprotein antibody, CD4 western blot antibody

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