# CD4 Antibody Clone EDU-2 / T Helper Cell Marker Antibody [clone EDU-2] (V2382)

| Catalog No. | Formulation | Size |
|---|---|---|
| V2382-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2382-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2382SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Citations (13)

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | EDU-2 |
| **Purity** | Protein G affinity chromatography |
| **Buffer** | 1X PBS, pH 7.4 |
| **UniProt** | P01730 |
| **Localization** | Cell surface |
| **Applications** | 0.5-1ug/10^6 cells0.5-1ug/ml |
| **Limitations** | The CD4 Antibody Clone EDU-2 / T Helper Cell Marker Antibody is available for research use only. |



## Description

CD4 molecule (CD4) is a cell surface glycoprotein expressed primarily on T helper lymphocytes, where it functions as a co-receptor for antigen recognition through interaction with major histocompatibility complex class II molecules and contributes to T cell receptor signaling. CD4 Antibody Clone EDU-2 is used to detect CD4-positive immune cells and supports analysis of T helper lymphocyte populations in immunological research.

CD4 antibody, also known as T helper cell marker antibody or CD4 surface receptor antibody, is widely used to identify CD4-expressing cells across a variety of experimental systems. CD4 Antibody Clone EDU-2 has been described in multiple peer-reviewed studies, supporting its use as a well-characterized reagent for detection of CD4-positive T cells. This level of literature support indicates consistent performance and reliable target recognition, making clone EDU-2 a practical choice for routine CD4 detection and immune cell characterization.

CD4 Antibody Clone EDU-2 enables identification of CD4-positive T helper lymphocytes within mixed immune cell populations, supporting evaluation of immune system composition and cellular interactions. Detection of CD4-positive cells is essential for studying adaptive immune responses, including T cell activation, cytokine signaling, and coordination of immune effector functions. CD4 Antibody Clone EDU-2 supports these studies by providing reproducible detection of CD4 across experimental conditions.

As a mouse monoclonal antibody, clone EDU-2 provides consistent epitope recognition and batch-to-batch reproducibility, supporting reliable experimental outcomes. CD4 Antibody Clone EDU-2 can be incorporated into a variety of research workflows where identification of CD4-expressing cells is required, including studies of immune regulation, inflammation, and disease-associated immune responses. Its use across multiple studies supports its role as a dependable reagent for CD4 detection.

CD4 is localized to the plasma membrane of T helper lymphocytes, where it plays a central role in antigen-specific signaling and immune activation. CD4 Antibody Clone EDU-2 targets this membrane-associated receptor, enabling detection of CD4-positive cells and supporting analysis of immune cell populations. A CD4 antibody such as clone EDU-2 can be used in research applications to support characterization of T helper cell populations and investigation of immune system function.

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

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD4 Antibody Clone EDU-2 / T Helper Cell Marker Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Stimulated human leukocytes were used as immunogen for the CD4 Antibody Clone EDU-2 / T Helper Cell Marker Antibody.

## Storage

CD4 antibody with azide can be stored at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.

## Alternate Names

CD4 EDU-2 antibody, CD4 clone EDU-2 antibody, CD4 T cell marker antibody EDU-2, CD4 mouse monoclonal antibody

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