

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	Functional Studies (order BSA/sodium Azide-free Format) : Flow Cytometry : 0.5-1ug/10 ⁶ cells Immunofluorescence : 0.5-1ug/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 2-8°C. The azide-free format should be aliquoted and stored at -20°C or colder.

Alternate Names

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