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 2-8oC. 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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