

Product datasheet

Anti-CD4 antibody [YTS 177.9] (Phycoerythrin) ab33437

5 References

Overview

Product name	Anti-CD4 antibody [YTS 177.9] (Phycoerythrin)
Description	Rat monoclonal [YTS 177.9] to CD4 (Phycoerythrin)
Host species	Rat
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Specificity	This antibody reacts with the CD4 antigen, non polymorphic epitope. The antibody reacts with CD4 transfectants and blocks MHCII dependant T cell responses in vitro and in vivo and induces tolerance.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue/ cell preparation: Mouse spleen cells.

Properties

Form	Lyophilised:Reconstitute with 1ml distilled water.
Storage instructions	Store at +4°C in the dark. Do not freeze.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 1.0% BSA, PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	YTS 177.9
Myeloma	Y3/Ag1.2.3
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab33437** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Flow Cyt

Application notes

Flow Cyt: Use 10µl for 10⁶ cells or 100µl of whole blood.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Accessory protein for MHC class-II antigen/T-cell receptor interaction. May regulate T-cell activation. Induces the aggregation of lipid rafts.

Sequence similarities

Contains 3 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Post-translational modifications

Palmitoylation and association with LCK contribute to the enrichment of CD4 in lipid rafts.

Cellular localization

Cell membrane. Localizes to lipid rafts. Removed from plasma membrane by HIV-1 Nef protein that increases clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation. Cell surface expression is also down-modulated by HIV-1 Envelope polyprotein gp160 that interacts with, and sequesters CD4 in the endoplasmic reticulum.

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