

Product datasheet

Anti-CD4 antibody [LT4] ab8361

1 References

Overview

Product name	Anti-CD4 antibody [LT4]
Description	Mouse monoclonal [LT4] to CD4
Host species	Mouse
Specificity	This antibody reacts with CD4 antigen (MW 59 kDa).
Tested applications	Suitable for: ELISA
Species reactivity	Reacts with: Human
Immunogen	Normal human blood lymphocytes
General notes	Concentration varies from lot to lot and can be provided on request.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS, pH 7.4
Purity	IgG fraction
Purification notes	DEAE-column.
Clonality	Monoclonal
Clone number	LT4
Myeloma	x63-Ag8.653
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab8361** 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
ELISA		

Application notes

IA: 1/4000. This antibody can be used to enumerate T helper / inducer subset in peripheral blood and tissue.

Not 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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