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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse CD3z (CD247)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL7230AP	Purified	250 µg	1.0 mg/ml	CLCHM00
CL7230B/-3	Biotin	100/300 µg	0.1 mg/ml	CLCHM15
CL7230F/-3	FITC	100/300 µg	0.1 mg/ml	CLCHM01

Isotype: Hamster IgG2κ

DESCRIPTION:

Cedarlane's Purified Anti-Mouse CD3z Monoclonal Antibody detects the zeta subunit of the T cell receptor (TCR). The TCR complex consists of a ligand specific alpha/beta heterodimer non-covalently associated with five invariant chains including the CD3 gamma, delta, eta and zeta subunits. This complex regulates assembly and expression of the receptor and is thought to be responsible for transmembrane transduction of signals after binding to TCRαβ.

Studies have suggested that the CD3z subunit (also known as CD247) plays an important role in two distinct cellular compartments. In the cytoplasm, it may function to regulate Ag receptor expression and in the plasma membrane it may be required for optimal signaling by the physiologic ligand Ag/MHC. The CD3z subunit is also associated with the CD16 IgG Fc receptor on NK cells.

This clone (H146-968) has been reported to work in flow cytometry (in permeabilized cells), Western Blotting and ELISA.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

Biotin and FITC: Biotin/FITC conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **PE** conjugates. For long term storage (**Purified and Biotin**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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SPECIFICATIONS:

Clone: H146-968

Hybridoma Production:

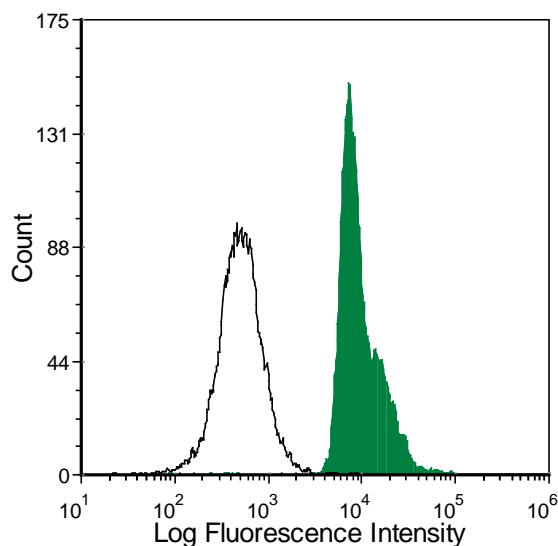
Immunization:

Immunogen: KLH conjugated mouse zeta-chain (CD3) sequence 151-164

Donor: Armenian hamster

Specificity: Mouse CD3z (zeta chain); also known as CD247

TEST RESULTS:



C57/BL6 mouse thymocytes (fixed and permeabilized) were stained with anti-CD3z (clone: H146-968) (filled histogram) or Armenian hamster IgG isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Rozdzial, MM, Kudo RT, Turner SL and Finkel TH. 1994. Developmental Regulation of the TCR ζ -Chain. *J Immunol* 153:1563.
2. Moingeon P *et al.* 1992. CD3 ζ Dependence of the CD2 Pathway of Activation in T Lymphocytes and Natural Killer Cells. *Proc Natl Acad Sci USA*. February 15; 89 (4):1492.

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