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Anti-Mouse CD3ε Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL7202A	Purified	0.5ml	NA	CLCHM00
CL7202AP/-2	Purified	250µg/500µg	1.0 mg/ml	CLCHM00
CL7202LE	Purified	500ug	1.0mg/ml	CLCHM00
CL7202NA	Purified	1.0ml	1.0 mg/ml	CLCHM00
CL7202B/-3	Biotin	100µg/300µg	0.1 mg/ml	CLCHM15
CL7202F/-3	FITC	100µg /300µg	0.1 mg/ml	CLCHM01
CL7202PE/-3	PE	50µg /300µg	0.1 mg/ml	CLCHM04
CL7202AF4	Alexa Fluor®488	100 µg	0.1 mg/ml	N/A
CL7202AF6	Alexa Fluor®647	100 µg	0.1 mg/ml	N/A
CL7202AF7	Alexa Fluor®700	100 µg	0.1 mg/ml	N/A

Alexa Fluor® is a registered trademark of Life Technologies Corporation.

Isotype: Hamster IgG

DESCRIPTION:

Cedarlane's anti-mouse CD3ε monoclonal antibody is specific for a 25 kDa protein component (ε-T3) of the antigen specific T cell receptor on all mouse strains tested. The ε-T3 protein has been shown to be non-covalently associated on the cell surface αβ heterodimer of the CD3 associated complex. This monoclonal antibody reacts with all mature T cells and can both activate and inhibit T cell function (1). This fact identifies ε-T3 as a cell surface protein involved in the transduction of activation signals. All peripheral T cells express this determinant however B cells and bone marrow cells have proven to be negative. Although the expression of this particular epitope on peripheral T cells is uniformly high, staining of thymocytes reveals distinct subpopulations of cells differing in the level of expression of this marker.

This antibody will prove useful in studying the role of various components of the TCR complex in T cell activation and development, and will allow for the development of an animal model in which to investigate the immunoregulatory effects of *in vivo* administration of anti-CD3 antibodies, an area of obvious clinical importance. Anti-CD3ε is ideal for flow cytometry applications, particularly as a specific marker for tracking mouse T cells. In addition, this monoclonal antibody, clone 145-2C11 was specifically designed to trigger T cell activation. This clone has also been reported to work in immunoprecipitation [1,2] and Western Blotting [8].

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
LE: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant via Protein G Chromatography)
No Azide: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.
Biotin, FITC, PE, AF488, AF647 and AF700: Biotin/FITC/PE/AF488/AF647/AF700 conjugated IgG buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

In CANADA: Toll Free: 1-800-268-5058
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STORAGE/STABILITY:
For all formats, store at +4°C. DO NOT FREEZE **PE, AF488, AF647 and AF700** conjugates. For long term storage (**Purified, Biotin, FITC, NA** aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

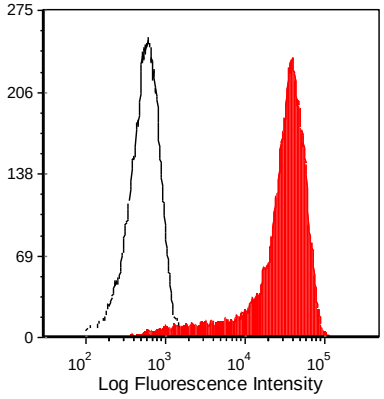
SPECIFICATIONS:
Clone: 145-2C11

Hybridoma Production:

Immunization: Immunogen: H-2K^b specific mouse cytotoxic T lymphocyte clone BM10-37.
Donor: Armenian Hamster Spleen
Fusion Partner: Murine myeloma cell line SP2/0

Specificity: Mouse CD3ε

FLOW CYTOMETRY ANALYSIS:
Donor: BALB/c
Cell Concentration: 1x10^6 cells per test
Antibody Concentration: 0.5 µg/10^6 cells
Cell Source: Thymocytes 68.4%
Splenic T Cells 89.2%



C3H/He mouse splenic T-cells were stained with anti-CD3ε (clone: 145-2C11) (filled histogram) or Armenian hamster IgG isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labelling studies.
*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

STRAIN DISTRIBUTION:
Antibody Concentration: 0.5 µg/10^6 cells
Strains Tested: BALB/c, C57BL/6, C3H/He, AKR/J
Positive: BALB/c, C57BL/6, C3H/He, AKR/J

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