Anti-Mouse CD3e Antibody, Clone 145-2C11, Biotin

Antibodies

Hamster (Armenian) monoclonal IgG1 antibody against mouse CD3e, biotin-

conjugated

Catalog #60015BT #60015BT.1

500 μg 0.5 mg/mL 50 μg 0.5 mg/mL



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Product Description

The 145-2C11 antibody reacts with the ~20 kDa CD3 ϵ subunit of the mouse T cell receptor (TCR)/CD3 complex, which is expressed on the surface of circulating mature T cells and NK-T cells, and variably on thymocytes. A majority of T cell neoplasms also express CD3. The CD3 complex, which is assembled from combinations of CD3 γ , δ , ϵ , η and ζ subunits, associates non-covalently with the TCR and is involved in transducing antigen recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR. Activation of T cells by the TCR involves the cytoplasmic tails of the CD3 subunits, which are structurally related type 1 transmembrane proteins and members of the immunoglobulin super family. Mutations in the CD3 subunits have been associated with various immunodeficiency disorders including severe combined immunodeficiency (SCID). The 145-2C11 antibody has been used for in vitro functional (blocking and activation) assays and has been reported to block binding by the clone 17A2 antibody. The 145-2C11 antibody is not recommended for use with formalin-fixed, paraffin-embedded sections.

Target Antigen Name: CD3e

Alternative Names: CD3, CD3epsilon, T3

Gene ID: 12501 Species Reactivity: Mouse

Host Species: Hamster (Armenian)

Clonality: Monoclonal
Clone: 145-2C11
Isotype: IgG1, kappa

Immunogen: H-2Kb-specific mouse cytotoxic T lymphocyte clone BM10-37

Conjugate: Biotin

Applications

Verified: CellSep, FC

Reported: ELISA, FA, FC, IF, IHC, IP, WB

Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including

EasySep™ Mouse T Cell Isolation Kit (Catalog #19851).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Purification: The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.

The solution is free of unconjugated biotin.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact

techsupport@stemcell.com.

Directions for Use: For flow cytometry the suggested use of this antibody is ≤ 0.25 µg per 1 x 10e6 cells in 100 µL volume. It is

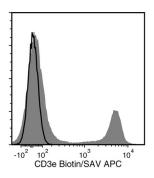
recommended that the antibody be titrated for optimal performance for each application.

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Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD3e Antibody, Clone 145-2C11, Biotin followed by streptavidin (SAV) APC (filled histogram) or an Armenian hamster IgG biotin isotype control antibody followed by SAV APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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