

**Datasheet for 200-B02-M69****CD3e Fluorescein Antibody****Overview**

|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-CD3 epsilon (ARMENIAN HAMSTER) Fluorescein Conjugated Monoclonal Antibody - 200-B02-M69 |
| <b>Item No.:</b>     | 200-B02-M69                                                                                  |
| <b>Size:</b>         | 100 µg                                                                                       |
| <b>Applications:</b> | FC                                                                                           |
| <b>Reactivity:</b>   | Mouse                                                                                        |
| <b>Host Species:</b> | Hamster Armenian                                                                             |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | CD3 is a multi-subunit complex consisting of 4 different invariable membrane proteins, CD3E, CD3D, CD3G and CD3-omega. These CD3 proteins are expressed on the surface of T-cells and Thymocytes during thymocyte development. They are non-covalently associated with the TCR heterodimer and form the functional TCR-CD3 antigen receptor complex of the T-lymphocyte. CD3 expression is significant during Intrathymic T-lymphocyte maturation, TCR signaling and Thymocyte differentiation. Stimulation of TCR-CD3 complex results in activation of various protein tyrosine kinases including ZAP-70 affecting multiple cellular responses including T-cell proliferation, clonal expansion, induction of tolerance and apoptosis. Mutations in the sub-unit chains of CD3 have been associated with various immunodeficiency syndromes including SCID. |
| <b>Synonyms:</b>     | T-cell surface glycoprotein CD3 epsilon chain, T-cell surface antigen T3/Leu-4 epsilon chain, CD3e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Hamster Armenian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conjugate:</b>    | Fluorescein (FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clone ID:</b>     | 145-2C11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>F/P Ratio:</b>    | 2-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Target Details**

|                     |                                                                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name:          | Cd3e                                                                                                                                                                                                                                                 |
| Reactivity:         | Mouse                                                                                                                                                                                                                                                |
| Immunogen Type:     | Other                                                                                                                                                                                                                                                |
| Immunogen:          | Anti-CD3 Antibody (Monoclonal) was produced by repeated immunizations with H-2Kb specific cytotoxic T lymphocyte clone BM10-37.                                                                                                                      |
| Purity/Specificity: | Fluorescein conjugated CD3 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD3. Reactivity is observed against mouse CD3. Cross reactivity with CD3 from other sources has not been tested. |
| Relevant Links:     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P22646</a></li><li>• <a href="#">NCBI - NP_031674.1</a></li><li>• <a href="#">GeneID - 12501</a></li></ul>                                                                           |

## Application Details

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Tested Applications: | FC                                                                                                                                      |
| Application Note:    | Anti-CD3 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated. |
| Assay Dilutions:     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                         |
| FC:                  | 0.1-0.5 µg/10 <sup>6</sup> cells                                                                                                        |

## Formulation

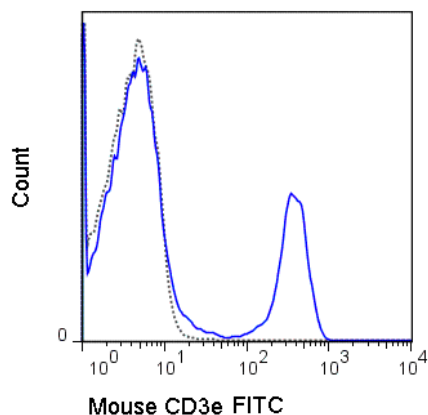
|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Physical State: | Liquid (sterile filtered)                               |
| Concentration:  | 0.5mg/mL by UV absorbance at 280 nm                     |
| Buffer:         | 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Preservative:   | 0.09% (w/v) Sodium Azide                                |
| Stabilizer:     | 0.1% Gelatin                                            |

## Shipping & Handling

|                     |         |
|---------------------|---------|
| Shipping Condition: | Wet Ice |
|---------------------|---------|

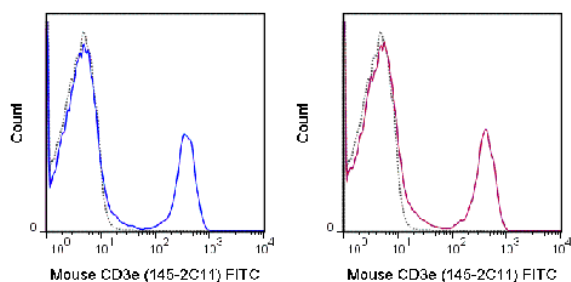
|                           |                                                                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Condition:</b> | Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive. |
| <b>Expiration:</b>        | Expiration date is six (6) months from date of receipt.                                                                                                                                           |

## Images



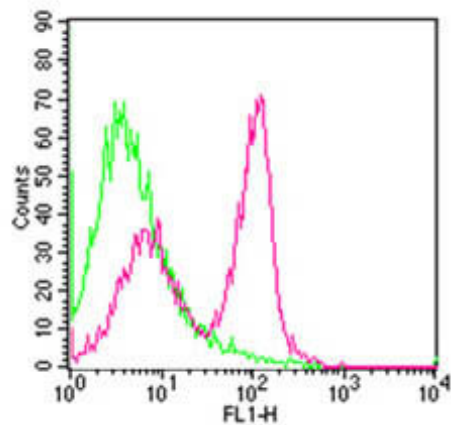
### Flow Cytometry

Flow Cytometry of Hamster anti-MOUSE CD3e antibody Fluorescein conjugated. Cells:  $10^6$  C57Bl/6 splenocytes. Stimulation: none. Antibody: (GRAY) 0.5 $\mu$ g FITC Hamster IgG isotype control antibody; (BLUE) Fluorescein Anti-CD3 Hamster secondary antibody using 0.5  $\mu$ g.



### Flow Cytometry

Flow Cytometry of Hamster anti-MOUSE CD3 antibody Fluorescein conjugated. Cells:  $10^6$  C57Bl/6 splenocytes. Stimulation: none. Antibody: (GRAY) FITC Hamster IgG isotype control antibody; (BLUE) 0.5 $\mu$ g Rockland Fluorescein Anti-CD3 Hamster secondary antibody, (RED) Fluorescein Anti-CD3 Hamster control antibody.



### Flow Cytometry

Cell Surface Flow Cytometry of Hamster anti-MOUSE CD3 antibody Fluorescein conjugated. Cells:  $10^6$  BALB/c mouse splenocytes. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Fluorescein Anti-CD3 Hamster secondary antibody using 0.25  $\mu$ g.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.