

## Anti-Mouse CD3ε Antibody, Clone 145-2C11, APC



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## Antibodies

Hamster (Armenian) monoclonal IgG1 antibody against mouse CD3ε, APC-conjugated

Catalog #60015AZ  
#60015AZ.1

100 µg 0.2 mg/mL  
25 µg 0.2 mg/mL

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

## Product Description

The 145-2C11 antibody reacts with the ~20 kDa CD3ε 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 CD3γ, 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: | CD3ε  |
| 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:           | APC   |

## Applications

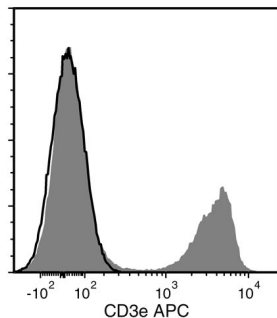
|                       |  |
|-----------------------|--|
| Verified:             | FC   |
| Reported:             | FC   |
| Special Applications: | This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse T Cell Isolation Kit (Catalog #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 APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.   |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> . |
| Directions for Use:    | For flow cytometry the suggested use of this antibody is ≤ 1 µg per 1 × 10 <sup>6</sup> cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.                      |

## Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD3e Antibody, Clone 145-2C11, APC (filled histogram) or an Armenian hamster IgG APC isotype control antibody (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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

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