



# Anti-CD3E monoclonal antibody, clone 145-2C11 [R-PE/Cy5®] (CABT-50515HM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Hamster anti Mouse CD3 antibody, clone 145-2C11 detects CD3 epsilon (CD3e), a 20kDa transmembrane protein also known as CD3 or T3. CD3e is a member of the CD3 complex which consists of four subunits, gamma, delta, epsilon and zeta, and these are associated to the T cell receptor (TCR). TCR plays a critical role in T cell development and function, and is responsible for ligand recognition. It interacts non-covalently with the CD3 dimers delta/epsilon, gamma/epsilon and zeta/zeta which transduce signals from the TCR into the cell. CD3e is primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. Hamster anti Mouse CD3 antibody, clone 145-2C11 is useful for in vitro blocking and activation assays, as well as apoptosis induction and in vitro T cell depletions. Flow Cytometry Use 5ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

|                           |  |
|---------------------------|--|
| <b>Specificity</b>        | CD3E   |
| <b>Isotype</b>            | IgG  |
| <b>Source/Host</b>        | Hamster  |
| <b>Species Reactivity</b> | Mouse  |
| <b>Clone</b>              | 145-2C11   |
| <b>Conjugate</b>          | PE/Cy5   |
| <b>Applications</b>       | FC   |
| <b>Format</b>             | Purified IgG conjugated to R. Phycoerythrin - Cy5 (RPE-Cy5) - liquid |
| <b>Size</b>               | 500 µl   |

|                     |  |
|---------------------|--|
| <b>Preservative</b> | 0.09% Sodium Azide   |
| <b>Storage</b>      | Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. |

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | <a href="#">Cd3e CD3 antigen, epsilon polypeptide [ Mus musculus (house mouse) ]</a>  |
| <b>Official Symbol</b>     | CD3E  |
| <b>Synonyms</b>            | CD3E; CD3 antigen, epsilon polypeptide; CD3; T3e; AI504783; CD3epsilon; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain;   |
| <b>Entrez Gene ID</b>      | <a href="#">12501</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_031674</a>   |
| <b>UniProt ID</b>          | P22646  |
| <b>Chromosome Location</b> | 9 A5.2; 9 24.84 cM  |
| <b>Pathway</b>             | Adaptive Immune System; Chagas disease (American trypanosomiasis); Costimulation by the CD28 family; Downstream TCR signaling; Generation of second messenger molecules; HTLV-I infection; Hematopoietic cell lineage; Immune System; |
| <b>Function</b>            | SH3 domain binding; protein binding; protein heterodimerization activity; signal transducer activity; transmembrane signaling receptor activity;  |