



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 1x10⁶ cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

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

Preservative	0.09% Sodium Azide
Storage	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

Gene Name	Cd3e CD3 antigen, epsilon polypeptide [Mus musculus (house mouse)]
Official Symbol	CD3E
Synonyms	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;
Entrez Gene ID	12501
Protein Refseq	NP_031674
UniProt ID	P22646
Chromosome Location	9 A5.2; 9 24.84 cM
Pathway	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;
Function	SH3 domain binding; protein binding; protein heterodimerization activity; signal transducer activity; transmembrane signaling receptor activity;
