

CD3e Monoclonal Antibody (500A2), Pacific Blue™

Catalog NumberHM3428

Product data sheet

Details		Species Reactivity	
Size	1 mL	Species reactivity	Mouse
Host/Isotope	Syrian hamster / IgG	Published species	Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 0.1-0.25 µg / 1x10^6 cells
Clone	500A2	Published Applications	
Immunogen	C6VL-BS cell lysate	Neutralization (Neu)	See 1 publications below
Conjugate	Pacific Blue™	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	purified		
Storage buffer	PBS with BSA		
Contains	0.1% sodium azide		
Storage Conditions	4° C		

Background/Target Information

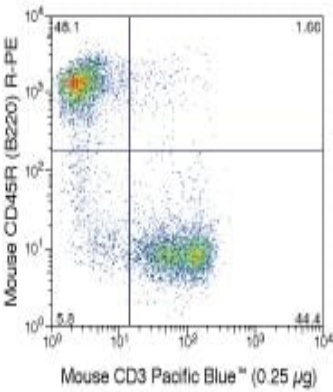
The CD3 subunit complex which is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules and this association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. The genes encoding the CD3 epsilon, gamma and delta polypeptides are located on chromosome 11. Defects in the CD3 gene are associated with CD3 immunodeficiency.

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CD3e Antibody (HM3428) in Flow
Flow Cytometry analysis using a CD3e monoclonal antibody (Product # HM3428).

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PubMed References For CD3e Monoclonal Antibody (500A2), Pacific Blue™

1 Neutralization References

Species / Dilution	Summary
	HM3428 was used in blocking or activating experiment to evaluate if an antibody-CD28 co-stimulatory signal blocks anergy induction in T-cell clones in mice
Not Applicable / 0.5-10 µg/ml	Nature (1992; 356: 607) "CD28-mediated signalling co-stimulates murine T cells and prevents induction of anergy in T-cell clones." Author(s):Harding FA,McArthur JG,Gross JA,Raulet DH,Allison JP PubMed Article URL: http://dx.doi.org/10.1038/356607a0

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