

Product datasheet for **AM08026AC-N**

Cd3e Rat Monoclonal Antibody [Clone ID: C363.29B (YCD3-1)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	C363.29B (YCD3-1)
Applications:	FC
Recommended Dilution:	Flow Cytometry: Identification and enumeration of CD3+ (< / = 1 µg/10e6 cells). (Ref.1,2).
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	This antibody is specific to CD3e (Mr. 25 kD).
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: APC State: Liquid purified Ig fraction. Label: Allophycocyanin
Concentration:	lot specific
Conjugation:	APC
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD3 antigen, epsilon polypeptide
Database Link:	<u>Entrez Gene 12501 Mouse P22646</u>



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Background:

CD3e, a member of the immunoglobulin superfamily of cell surface receptors, is comprised of five invariable chain ranging in size from 16-28 kDa and is closely associated with the T cell antigen receptor (TCR). It is expressed on all T cells of all mouse strains. (Ref.1,2)

CD3 plays a major role in signaling during antigen recognition, leading to T-cell activation. The monoclonal antibody C363.29B recognizes an epitope on the 25kD epsilon chain of the CD3/TCR complex. (Ref.1) In the presence of Fc receptor-bearing accessory cells, soluble C363.29B can activate primed and naïve T cell in vitro. Immobilized C363.29 monoclonal antibody can also activate both normal T lymphocytes and cloned T cell lines provided the appropriate accessory signals are present. (Ref.1,3,4)

The monoclonal antibody is cytolytic, easily used for cell surface staining and a good immunoprecipitating antibody. (Ref.1)

Synonyms:

T3/Leu-4