

## ARG20820 anti-CD3e antibody [C363.29B] (APC)

Package: 50 µg  
Store at: 4°C

### Summary

Product Description	APC-conjugated Rat Monoclonal antibody [C363.29B] recognizes CD3e
Tested Reactivity	Ms
Tested Application	Cell-Act , Depletion, FACS, IHC-Fr, IHC-P
Specificity	Mouse CD3ε. The clone C363.29B recognizes an epitope on the 25 kDa ε chain of the CD3/TCR complex. In the presence of Fc receptor-bearing accessory cells, soluble C363.29B can activate primed and naïve T cell in vitro. Immobilized C363.29B monoclonal antibody can also activate both normal T lymphocytes and cloned T cell lines provided the appropriate accessory signals are present.
Host	Rat
Clonality	Monoclonal
Clone	C363.29B
Isotype	IgG2b, kappa
Target Name	CD3e
Species	Mouse
Immunogen	IL-4 producing Th2 cell lines including D10
Conjugation	APC
Alternate Names	T-cell surface antigen T3/Leu-4 epsilon chain; T3E; TCRe; T-cell surface glycoprotein CD3 epsilon chain; IMD18; CD antigen CD3e

### Application Instructions

Application table	Application	Dilution
	Cell-Act	Assay-dependent
	Depletion	Assay-dependent
	FACS	< 1 µg/10 <sup>6</sup> cells
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

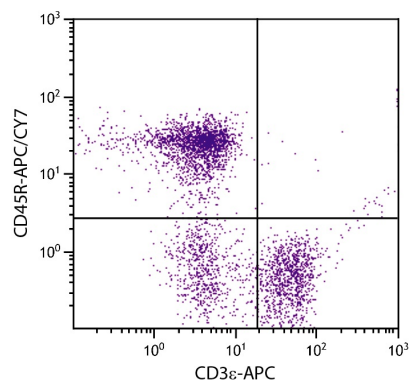
### Properties

Form	Liquid
Buffer	PBS, 0.1% Sodium azide and Sucrose.
Preservative	0.1% Sodium azide

Stabilizer	Sucrose
Concentration	0.1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

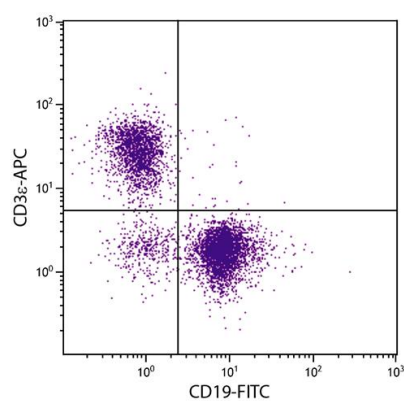
## Bioinformation

Database links	<a href="#">GeneID: 12501 Mouse</a> <a href="#">Swiss-port # P22646 Mouse</a>
Gene Symbol	CD3E
Gene Full Name	CD3 antigen, epsilon polypeptide
Background	<p>CD3 subunit complex 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 superfamily encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. 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.</p>
Function	<p>CD3: Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways (PubMed:2470098). In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development. Initiates the TCR-CD3 complex assembly by forming the two heterodimers CD3D/CD3E and CD3G/CD3E. Participates also in internalization and cell surface down-regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region (PubMed:10384095, PubMed:26507128). [UniProt]</p>
Highlight	<p>Related products:  <a href="#">CD3 antibodies</a>; <a href="#">CD3 ELISA Kits</a>; <a href="#">CD3 Duos / Panels</a>; <a href="#">Anti-Rat IgG secondary antibodies</a>;  Related news:  <a href="#">New antibody panels and duos for Tumor immune microenvironment</a>  <a href="#">Tumor-Infiltrating Lymphocytes (TILs)</a></p>
Research Area	Cancer antibody; Developmental Biology antibody; Immune System antibody; Lymphocyte Marker antibody; Inflammatory Cell Marker antibody; T-cell Marker antibody; T-cell infiltration Study antibody; Tumor-infiltrating Lymphocyte Study antibody
Calculated Mw	23 kDa



ARG20820 anti-CD3e antibody [C363.29B] (APC) FACS image

Flow Cytometry: BALB/c Mouse splenocytes stained with [ARG22032](#) anti-CD45R / B220 antibody [RA3-6B2] (APC/Cy7) and [ARG20820](#) anti-CD3e antibody [C363.29B] (APC).



ARG20820 anti-CD3e antibody [C363.29B] (APC) FACS image

Flow Cytometry: BALB/c Mouse splenocytes stained with ARG20820 anti-CD3e antibody [C363.29B] (APC) and [ARG20850](#) anti-CD19 antibody [6D5] (FITC).