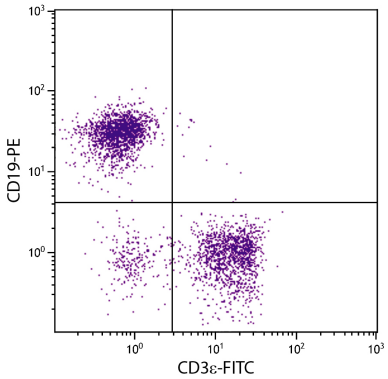
SouthernBiotech

Rat Anti-Mouse CD3ε

Cat. No.	Format	Size
1535-01	Purified (UNLB)	0.5 mg
1535-02	Fluorescein (FITC)	0.5 mg
1535-02S	Fluorescein (FITC)	0.1 mg
1535-08	Biotin (BIOT)	0.5 mg
1535-09	R-phycoerythrin (PE)	0.1 mg
1535-09L	R-phycoerythrin (PE)	0.2 mg
1535-11	Allophycocyanin (APC)	0.1 mg
1535-13	Spectral Red® (SPRD)	0.1 mg
1535-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1535-15	Cyanine 5 (CY5)	0.1 mg



C57BL/6 mouse splenocytes were stained with Rat Anti-Mouse CD3ε-FITC (SB Cat. No. 1535-02) and Rat Anti-Mouse CD19-PE (SB Cat. No. 1575-09).

Overview

Clone C363.29B
Isotype Rat (Lewis) $IgG_{2b}\kappa$
Immunogen IL-4 producing Th2 cell lines including D10
Specificity Mouse CD3ε; Mr 25 kDa
Alternate Name(s) CD3 epsilon

Description

CD3ε, 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. 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 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 C363.2B9 monoclonal antibody can also activate both normal T lymphocytes and cloned T cell lines provided the appropriate accessory signals are present. The monoclonal antibody is cytolytic, easily used for cell surface staining, and a good immunoprecipitating antibody.

Applications

FC – Quality tested [1,7-12]
IHC-FS – Reported in literature [2-4]
IHC-PS – Reported in literature [5,6]
IP – Reported in literature [1]
Depletion – Reported in literature [1]
Activ – Reported in literature [1,4]
CMCD – Reported in literature [1]

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	≤ 3 μg/10^6 cells
	PE, APC, SPRD, and CY5 conjugates	≤ 1 μg/10^6 cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

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3. Ubogu EE, Yosef N, Xia RH, Sheikh KA. Behavioral, electrophysiological, and histopathological characterization of a severe murine chronic demyelinating polyneuritis model. J Peripher Nerv Syst. 2012;17:53-61. (IHC-FS)
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