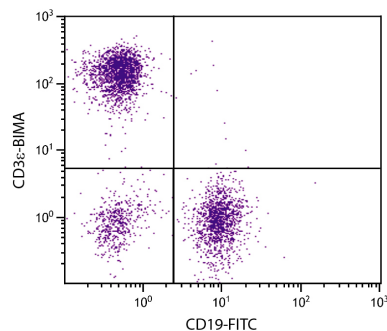




Hamster Anti-Mouse CD3 ϵ

Cat. No.	Format	Size
1530-01	Purified (UNLB)	0.5 mg
1530-02	Fluorescein (FITC)	0.5 mg
1530-02S	Fluorescein (FITC)	0.1 mg
1530-09	R-phycoerythrin (PE)	0.1 mg
1530-09L	R-phycoerythrin (PE)	0.2 mg
1530-11	Allophycocyanin (APC)	0.1 mg
1530-13	Spectral Red [®] (SPRD)	0.1 mg
1530-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1530-28	Biotin-maleimide (BIMA)	0.5 mg
1530-30	Alexa Fluor [®] 488 (AF488)	0.1 mg
1530-31	Alexa Fluor [®] 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Hamster Anti-Mouse CD3 ϵ -BIMA (SB Cat. No. 1530-28) and Rat Anti-Mouse CD19-FITC (SB Cat. No. 1575-02) followed by Streptavidin-PE (SB Cat. No. 7100-09).

Overview

Clone	145-2C11
Isotype	Hamster (Armenian) IgG ₁
Immunogen	H-2K ^b -specific murine cytotoxic T-lymphocyte (CTL) clone BM10-37
Specificity	Mouse CD3 ϵ ; Mr 25 kDa
Alternate Name(s)	CD3 epsilon

Description

CD3 ϵ , a member of the immunoglobulin superfamily of cell surface receptors, is comprised of five invariable chains 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 145-2C11 monoclonal antibody recognizes an epitope on the 25 kDa ϵ chain of the CD3/TCR complex. In the presence of Fc receptor-bearing accessory cells, soluble 145-2C11 can activate primed and naïve T cell *in vitro*. 145-2C11 can also induce redirected lysis of specific target cells by CTL clones and it can block lysis of specific target cells by antigen-specific CTL's. Immobilized 145-2C11 can activate both normal T lymphocytes and cloned T cell lines. Under certain conditions, T cell activation by 145-2C11 may result in apoptotic cell death.

Applications

FC – Quality tested ^{1,10-12}
 IHC – Reported in literature ⁹
 IP – Reported in literature ^{1,8}
 WB – Reported in literature ⁸
 Block – Reported in literature ^{2,3}
 Depletion – Reported in literature ⁶
 Activ – Reported in literature ^{1,4,7}
 CMCD – Reported in literature ⁵

Working Dilutions

Flow Cytometry	FITC conjugate	$\leq 3 \mu\text{g}/10^6$ cells
	BIMA and AF488 conjugates	$\leq 1 \mu\text{g}/10^6$ cells
	PE, APC, SPRD, and AF647 conjugates	$\leq 0.1 \mu\text{g}/10^6$ 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.

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/NaN₃. Store at 2-8°C.
- The biotin (BIMA) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. 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/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) and Spectral Red[®] (SPRD) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ 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 Alexa Fluor[®] 488 (AF488) and Alexa Fluor[®] 647 (AF647) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. 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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Spectral Red[®] is a PE/CY5 tandem conjugate.

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