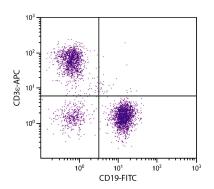




Hamster Anti-Mouse CD3ε

Cat. No.	Format	Size
1531-01	Purified (UNLB)	0.5 mg
1531-02	Fluorescein (FITC)	0.5 mg
1531-08	Biotin (BIOT)	0.5 mg
1531-09	R-phycoerythrin (PE)	0.1 mg
1531-11	Allophycocyanin (APC)	0.1 mg
1531-13	Spectral Red® (SPRD)	0.1 mg
1531-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1531-15	Cyanine 5 (CY5)	0.1 mg
1531-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	0.1 mg



BALB/c mouse splenocytes were stained with Hamster Anti-Mouse CD3ε-APC (SB Cat. No. 1531-11) and Rat Anti-Mouse CD19-FITC (SB Cat. No. 1575-02).

Overview

Clone 500-A2

Isotype Hamster (Syrian) IgG₂

Immunogen Immune complexes isolated from C6VL-BS thymoma cells

Specificity Mouse CD3s; 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). CD3 ϵ 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. 500-A2 recognizes an epitope on the 25 kDa ϵ chain of the CD3/TCR complex of mouse strains tested.

Applications

FC – Quality tested ¹ IHC-FS – Reported in literature ³ IP – Reported in literature ¹

Activ - Reported in literature 1,2,4

Working Dilutions

Flow Cytometry FITC conjugate $\le 3 \mu g/10^6 \text{ cells}$ BIOT conjugate $\le 1 \mu g/10^6 \text{ cells}$ PE, APC, and APC/CY5.5 conjugates $\le 0.3 \mu g/10^6 \text{ cells}$

SPRD and CY5 conjugates $\leq 0.3 \,\mu \text{g/} 10^{\circ} \, \text{cells}$

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.

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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 in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) 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 Spectral Red[®] (SPRD) and allophycocyanin-Cyanine 5.5 (APC/CY5.5) 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 purified immunoglobulin in 1.0 mL of PBS. Contains no
 preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple
 freeze / thaw cycles.
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 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 SDS.

References

- 1. Allison JP, Havran WL, Poenie M, Kimura J, DeGraffenreid L, Ajami M, et al. Expression and function of CD3 on murine thymocytes. In: Davis MM, Kappler J, editors. The T-Cell Receptor, UCLA Symposia, 73rd Edition. New York: Alan R. Liss; 1988. p.33-45. (Immunogen, FC, IP, Activ)
- 2. Swallow MM, Wallin JJ, Sha WC. B7h, a novel costimulatory homolog of B7.1 and B7.2, is induced by TNFα. Immunity. 1999;11:423-32. (Activ)
- 3. Hörnquist CE, Lu X, Rogers-Fani PM, Rudolph U, Shappell S, Birnbaumer L, et al. Gαi2-deficient mice with colitis exhibit a local increase in memory CD4⁺ T cells and proinflammatory Th1-type cytokines. J Immunol. 1997;158:1068-77. (IHC-FS)
- Portoles P, Rojo J, Golby A, Bonneville M, Gromkowski S, Greenbaum L, et al. Monoclonal antibodies to murine CD3ε define distinct epitopes one of which may interact with CD4 during T cell activation. J Immunol. 1989;142:4169-75. (Activ)

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