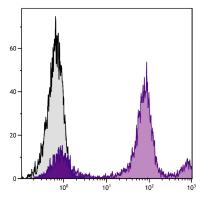
SouthernBiotech 1



Rat Anti-Mouse Ly-6C

Cat. No.	Format	Size
1760-01	Purified (UNLB)	0.5 mg
1760-02	Fluorescein (FITC)	0.5 mg
1760-08	Biotin (BIOT)	0.5 mg
1760-09	R-phycoerythrin (PE)	0.1 mg
1760-26	Pacific Blue™ (PACBLU)	0.1 mg
1760-27	Alexa Fluor® 700 (AF700)	0.1 mg
1760-30	Alexa Fluor® 488 (AF488)	0.1 mg
1760-31	Alexa Fluor® 647 (AF647)	0.1 mg



BALB/c mouse bone marrow cells were stained with Rat Anti-Mouse Ly-6C-PE (SB Cat. No. 1760-09).

Overview

Clone HK1.4

 $\begin{array}{ll} \textbf{Isotype} & \text{Rat (Lewis) IgG}_{2c} \kappa \\ \textbf{Immunogen} & \text{L3 cloned CTL cells} \end{array}$

Specificity Mouse Ly-6C; Mr 14-17 kDa

Alternate Name(s) N/A

Description

Ly-6C is a member of the Ly-6 multigene family of type V glycophosphatidylinositol-anchored cell surface proteins. It is expressed on bone marrow cells, monocytes/macrophages, neutrophils, endothelial cells, and T-cell subsets. Mice with the Ly-6.2 allotype (e.g., AKR, C57BL, C57BR, C57L, DBA/2, PL, SJL, SWR, 129) have subsets of CD4⁺Ly-6C⁺ and CD8⁺Ly-6C⁺ cells while Ly-6.1 strains (e.g., A, BALB/c, CBA, C3H/He, DBA/1, NZB) have only CD8⁺Ly-6C⁺ lymphocytes. Ly-6C may play a role in the development and maturation of lymphocytes.

Applications

FC – Quality tested ¹⁻⁸ IHC-FS – Reported in literature ² Activ – Reported in literature ¹

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	\leq 1 μ g/10 ⁶ cells
	FITC, BIOT, and AF488 conjugates	\leq 1 μ g/10 ⁶ cells
	PACBLU conjugate	$\leq 0.3 \ \mu g/10^6 \ cells$
	PE conjugate	$\leq 0.2 \ \mu g/10^6 \ cells$
	AF647 and AF700 conjugates	$\leq 0.1 \ \mu g/10^6 \ cells$
	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.	

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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) conjugate is 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 Alexa Fluor[®] 488 (AF488), Alexa Fluor[®] 647 (AF647), Alexa Fluor[®] 700 (AF700), and Pacific Blue[™] (PACBLU) 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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- 3. Chen CH, Grimbaldeston MA, Tsai M, Weissman IL, Galli SJ. Identification of mast cell progenitors in adult mice. Proc Natl Acad Sci USA. 2005;102:11408-13. (FC)
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- 6. Sun Q, Jin H, Bond JS. Disruption of the meprin alpha and beta genes in mice alters homeostasis of monocytes and natural killer cells. Exp Hematol. 2009;37:346-56. (FC)
- 7. León B, del Hoyo GM, Parrillas V, Vargas HH, Sánchez-Mateos P, Longo N, et al. Dendritic cell differentiation potential of mouse monocytes: monocytes represent immediate precursors of CD8 and CD8* splenic dendritic cells. Blood. 2004;103:2668-76. (FC)
- 8. Liu W, Xiao X, Demirci G, Madsen J, Li XC. Innate NK cells and macrophages recognize and reject allogeneic non-self in vivo via different mechanisms. J Immunol. 2012;188:2703-11. (FC)

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Cy® is a registered trademark of GE Healthcare.

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TB1760 22-May-15