PE/Cyanine5 anti-mouse Ly-6C Antibody

Catalog# / Size	128063 / 25 µg 128064 / 100 µg
Clone	HK1.4
Regulatory Status	RUO
Other Names	Lymphocyte antigen 6 complex, locus C
Isotype	Rat IgG2c, κ
Description	Most hematopoietic cells express one or more members of Ly-6 family. The expression of Ly-6 varies with development stage and activation. Ly-6C is a 14-17 kD GPI-linked surface protein expressed on mouse monocyte/macrophage cells, endothelial cells, neutrophils, and some T cell subsets. Ly-6C is reported to be an indicator of memory $CD8^+$ T cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	L3 cloned CTL cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone HK1.4 does not block the binding of clone RB6-8C5[8]. Additional reported applications (for relevant formats of this clone) include: *in vitro* activation of T cells[1-3] and immunohistochemistry of frozen sections[4].

Application References

(PubMed link indicates BioLegend citation)

1. Jutila MA, *et al.* 1988. *Eur. J. Immunol.* 18:1819. (Activ)
2. Herold KC, *et al.* 1990. *Diabetes* 39:815. (Activ)
3. Havran WL, *et al.* 1988. *J. Immunol.* 140:1034 (Activ)
4. Flanagan K, *et al.* 2008. *J. Immunol.* 180:3874. (IHC)
5. Makaroff LE, *et al.* 2009. *P. Natl. Acad. Sci. USA* 106:4799. (FC)
6. Zuber J, *et al.* 2009. *Genes Dev.* 23:877. (FC) PubMed
7. Ribechini E, *et al.* 2009. *Eur. J. Immunol.* 39:3538.
8. Ma C, *et al.* 2012. *J. Leukoc. Biol.* 92:1199.
9. Watson NB, *et al.* 2015. *J Immunol.* 194:2796. PubMed

RRID	AB_3674984 (BioLegend Cat. No. 128063)

AB_3674984 (BioLegend Cat. No. 128064)

Antigen Details

Structure	14-17 kD protein (134 amino acids), member of the Ly-6 family of GPI linked protein. Ly6 family members share structure homology throughout a distinctive cystein rich protein domain that incorporates O-linked carbohydrates.
Distribution	Ly-6C is expressed primarily on bone marrow myeloid populations, monocytes/macrophages, neutrophils, endothelial cells, and some T cell subsets. Ly-6C is also a marker of memory $CD8^+$ T cells.
Cell Type	Endothelial cells, Macrophages, Monocytes, Neutrophils, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Jutila MA, *et al.* 1988. *Eur. J. Immunol.* 18:1819. 2. Cerwenka A, *et al.* 1998. *J. Immunol.* 161:97.
Gene ID	17067

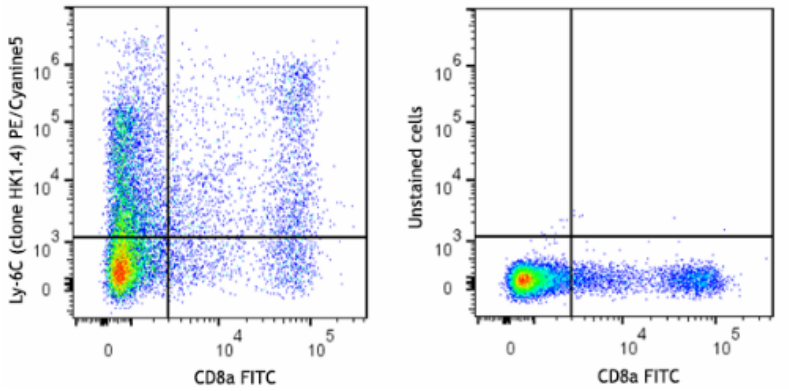
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Pacific Blue™ anti-mouse Ly-6C, APC anti-mouse Ly-6C, Purified anti-mouse Ly-6C, Biotin anti-mouse Ly-6C, FITC anti-mouse Ly-6C, Alexa Fluor® 647 anti-mouse Ly-6C, PE anti-mouse Ly-6C, PerCP/Cyanine5.5 anti-mouse Ly-6C, PE/Cyanine7 anti-mouse Ly-6C, Alexa Fluor® 488 anti-mouse Ly-6C, Alexa Fluor® 700 anti-mouse Ly-6C, APC/Cyanine7 anti-mouse Ly-6C, PerCP anti-mouse Ly-6C, Brilliant Violet 570™ anti-mouse Ly-6C, Brilliant Violet 421™ anti-mouse Ly-6C, Brilliant Violet 510™ anti-mouse Ly-6C, Brilliant Violet 605™ anti-mouse Ly-6C, Brilliant Violet 711™ anti-mouse Ly-6C, Purified anti-mouse Ly-6C (Maxpar® Ready), Brilliant Violet 785™ anti-mouse Ly-6C, PE/Dazzle™ 594 anti-mouse Ly-6C, APC/Fire™ 750 anti-mouse Ly-6C, TotalSeq™-A0013 anti-mouse Ly-6C, Brilliant Violet 650™ anti-mouse Ly-6C, TotalSeq™-C0013 anti-mouse Ly-6C, TotalSeq™-B0013 anti-mouse Ly-6C, APC/Fire™ 810 anti-mouse Ly-6C Antibody, Spark Red™ 718 anti-mouse Ly-6C, Spark UV™ 387 anti-mouse Ly-6C, PE/Fire™ 810 anti-mouse Ly-6C, Spark Blue™ 550 anti-mouse Ly-6C (Flexi-Fluor™), Spark Blue™ 574 anti-mouse Ly-6C (Flexi-Fluor™), PE/Cyanine5 anti-mouse Ly-6C, Spark PLUS B550™ anti-mouse Ly-6C, PerCP/Fire™ 806 anti-mouse Ly-6c Antibody, Spark YG™ 581 anti-mouse Ly-6C (Flexi-Fluor™), Spark YG™ 593 anti-mouse Ly-6C (Flexi-Fluor™) Antibody, Spark NIR™ 685 anti-mouse Ly-6C (Flexi-Fluor™) Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD8a (clone 53-6.7) FITC and anti-mouse Ly-6C (clone HK1.4) PE/Cyanine5 (left) or stained with anti-mouse CD8a (clone 53-6.7) FITC only (right).

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587