

## PerCP anti-mouse Ly-6C Antibody

<b>Catalog# / Size</b>	128027 / 25 µg 128028 / 100 µg
<b>Clone</b>	HK1.4
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Lymphocyte antigen 6 complex, locus C
<b>Isotype</b>	Rat IgG2c, κ
<b>Description</b>	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 <sup>+</sup> T cells.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	L3 cloned CTL cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Clone HK1.4 does not block the binding of clone RB6-8C5 <sup>8</sup> .  Additional reported applications (for relevant formats of this clone) include: <i>in vitro</i> activation of T cells <sup>1-3</sup> and immunohistochemistry of frozen sections <sup>4</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>Jutila MA, <i>et al.</i> 1988. <i>Eur. J. Immunol.</i> 18:1819. (Activ)</li> <li>Herold KC, <i>et al.</i> 1990. <i>Diabetes</i> 39:815. (Activ)</li> <li>Havran WL, <i>et al.</i> 1988. <i>J. Immunol.</i> 140:1034 (Activ)</li> <li>Flanagan K, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:3874. (IHC)</li> <li>Makaroff LE, <i>et al.</i> 2009. <i>P. Natl. Acad. Sci. USA</i> 106:4799. (FC)</li> <li>Zuber J, <i>et al.</i> 2009. <i>Genes Dev.</i> 23:877. (FC) <a href="#">PubMed</a></li> <li>Ribechini E, <i>et al.</i> 2009. <i>Eur. J. Immunol.</i> 39:3538.</li> <li>Ma C, <i>et al.</i> 2012. <i>J. Leukoc. Biol.</i> 92:1199.</li> <li>Watson NB, <i>et al.</i> 2015. <i>J Immunol.</i> 194:2796. <a href="#">PubMed</a></li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>Chinta KC <i>et al.</i> 2018. <i>Cell reports.</i> 25(7):1938-1952 . <a href="#">PubMed</a></li> <li>Däbritz J, <i>et al.</i> 2016. <i>Sci Rep.</i> 6:20584. <a href="#">PubMed</a></li> </ol>

(PubMed link indicates BioLegend citation)

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8. Wheeler MA, *et al.* 2019. *Cell*. 176:581. [PubMed](#)
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10. Kostadinova E, *et al.* 2016. *Sci Rep*. 6:30943. [PubMed](#)
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**RRID** AB\_10900235 (BioLegend Cat. No. 128027)  
 AB\_10897805 (BioLegend Cat. No. 128028)

## Antigen Details

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<b>Structure</b>	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.
<b>Distribution</b>	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 <sup>+</sup> T cells.
<b>Cell Type</b>	Endothelial cells, Macrophages, Monocytes, Neutrophils, T cells
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Jutila MA, <i>et al.</i> 1988. <i>Eur. J. Immunol</i> . 18:1819. 2. Cerwenka A, <i>et al.</i> 1998. <i>J. Immunol</i> . 161:97.
<b>Gene ID</b>	<a href="#">17067</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

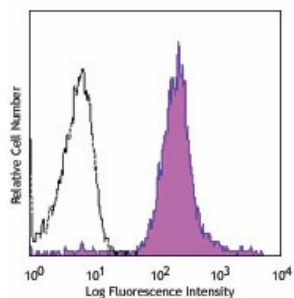
## Other Formats

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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

## Product Data

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C57BL/6 bone marrow cells were stained with Ly-6C (clone HK1.4) PerCP. Data shown was gated on myeloid cell population.

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