

## Alexa Fluor<sup>®</sup> 700 anti-mouse Ly-6C Antibody

<b>Catalog# / Size</b>	128023 / 25 µg 128024 / 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 Alexa Fluor <sup>®</sup> 700 under optimal conditions.
<b>Concentration</b>	0.5 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>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. The suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor<sup>®</sup> 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor<sup>®</sup> 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor<sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	<p>Clone HK1.4 does not block the binding of clone RB6-8C5<sup>8</sup>.</p> <p>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>.</p>
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Jutila MA, <i>et al.</i> 1988. <i>Eur. J. Immunol.</i> 18:1819. (Activ)</li><li>2. Herold KC, <i>et al.</i> 1990. <i>Diabetes</i> 39:815. (Activ)</li><li>3. Havran WL, <i>et al.</i> 1988. <i>J. Immunol.</i> 140:1034 (Activ)</li><li>4. Flanagan K, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:3874. (IHC)</li><li>5. Makaroff LE, <i>et al.</i> 2009. <i>P. Natl. Acad. Sci. USA</i> 106:4799. (FC)</li><li>6. Zuber J, <i>et al.</i> 2009. <i>Genes Dev.</i> 23:877. (FC) <a href="#">PubMed</a></li><li>7. Ribechini E, <i>et al.</i> 2009. <i>Eur. J. Immunol.</i> 39:3538.</li><li>8. Ma C, <i>et al.</i> 2012. <i>J. Leukoc. Biol.</i> 92:1199.</li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	

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## RRID

AB\_10640119 (BioLegend Cat. No. 128023)  
AB\_10643270 (BioLegend Cat. No. 128024)

## 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](#)

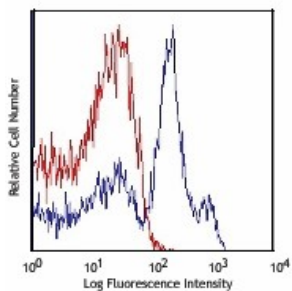
## Other Formats

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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 stained with  
HK1.4 Alexa Fluor® 700

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