

## Spark PLUS UV395™ anti-mouse Ly-6C Antibody

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog# / Size</b>   | 128073 / 25 µg<br>128074 / 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 Spark PLUS UV395™ 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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm. |
| <b>Excitation Laser</b>       | Ultraviolet Laser (355 nm)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Application Notes</b>      | Clone HK1.4 does not block the binding of clone RB6-8C5 <sup>8</sup> .<br><br>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> .                                                                                                                                                                   |

## 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\_3717225 (BioLegend Cat. No. 128073)  
AB\_3717225 (BioLegend Cat. No. 128074)

## Antigen Details

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### 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<sup>+</sup> 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

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- [Cell Surface Flow Cytometry Staining Protocol](#)

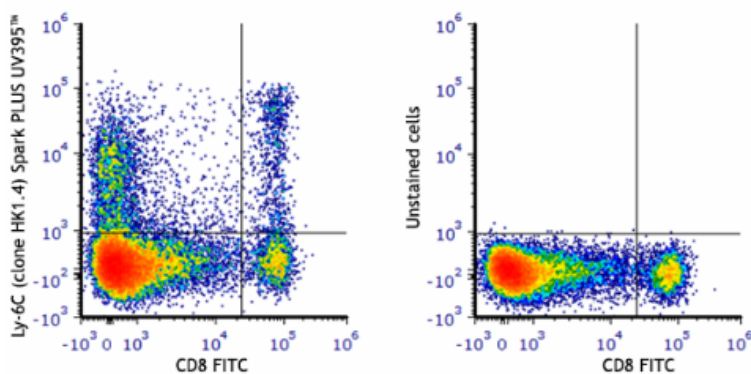
## Other Formats

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Spark Red™ 718 anti-mouse Ly-6C, PE/Fire™ 810 anti-mouse Ly-6C, Spark UV™ 387 anti-mouse Ly-6C, Purified anti-mouse Ly-6C (Maxpar® Ready), APC/Fire™ 810 anti-mouse Ly-6C Antibody, Brilliant Violet 785™ anti-mouse Ly-6C, APC/Fire™ 750 anti-mouse Ly-6C, PE/Dazzle™ 594 anti-mouse Ly-6C, Purified anti-mouse Ly-6C, FITC anti-mouse Ly-6C, PE/Cyanine7 anti-mouse Ly-6C, PerCP/Cyanine5.5 anti-mouse Ly-6C, Pacific Blue™ anti-mouse Ly-6C, Biotin anti-mouse Ly-6C, Alexa Fluor® 647 anti-mouse Ly-6C, PE anti-mouse Ly-6C, PerCP anti-mouse Ly-6C, Brilliant Violet 570™ anti-mouse Ly-6C, Spark Blue™ 574 anti-mouse Ly-6C (Flexi-Fluor™), PE/Cyanine5 anti-mouse Ly-6C, PerCP/Fire™ 806 anti-mouse Ly-6C Antibody, Spark YG™ 593 anti-mouse Ly-6C (Flexi-Fluor™) Antibody, Spark NIR™ 685 anti-mouse Ly-6C (Flexi-Fluor™) Antibody, StarBright UltraViolet 795 anti-mouse Ly-6C, StarBright UltraViolet 740 anti-mouse Ly-6C, TotalSeq™-C0013 anti-mouse Ly-6C, Brilliant Violet 421™ anti-mouse Ly-6C, Spark YG™ 581 anti-mouse Ly-6C (Flexi-Fluor™), TotalSeq™-A0013 anti-mouse Ly-6C, TotalSeq™-B0013 anti-mouse Ly-6C, APC anti-mouse Ly-6C, Alexa Fluor® 488 anti-mouse Ly-6C, Alexa Fluor® 700 anti-mouse Ly-6C, APC/Cyanine7 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, Spark PLUS B550™ anti-mouse Ly-6C, Spark PLUS UV395™ anti-mouse Ly-6C, Brilliant Violet 650™ anti-mouse Ly-6C

## Product Data

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C57BL/6 mouse splenocytes were stained with anti-mouse CD8 (clone 53-6.7) FITC and anti-mouse Ly-6C (clone HK1.4) Spark PLUS UV395™ (left) or stained with anti-mouse CD8 (clone 53-6.7) FITC only (right).

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