

**Brilliant Violet 570™ anti-mouse Ly-6C**

**Catalog # / Size:** 1240150 / 50 µg  
1240145 / 125 µl

**Clone:** HK1.4

**Isotype:** Rat IgG2c, κ

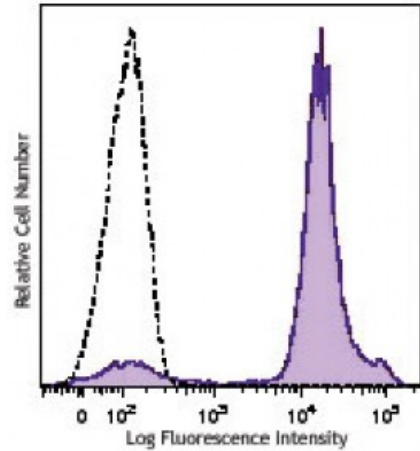
**Immunogen:** L3 cloned CTL cells

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 570™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 570™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Concentration:** microg sizes: 0.2 mg/ml  
microL sizes: lot-specific



C57BL/6 bone marrow cells were stained with Ly-6C (clone HK1.4) Brilliant Violet 570™ (filled histogram) or rat IgG2a, κ Brilliant Violet 570™ isotype control (open histogram). Data shown was gated on myeloid cell population.

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining using the microg size, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. For immunofluorescent staining using the microL size, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 570™ excites at 405 nm and emits at 570 nm. The bandpass filter 585/42 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 570™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** 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: *in vitro* activation of T cells<sup>1-3</sup> and immunohistochemistry of frozen sections<sup>4</sup>.

**Application References:** 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](#)
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**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<sup>+</sup> T cells.

**Antigen** 1. Jutila MA, *et al.* 1988. *Eur. J. Immunol.* 18:1819.  
**References:** 2. Cerwenka A, *et al.* 1998. *J. Immunol.* 161:97.