

Brilliant Violet 650™ anti-mouse Ly-6C

Catalog # / Size: 1240245 / 50 µg

Clone: HK1.4

Isotype: Rat IgG2c, κ

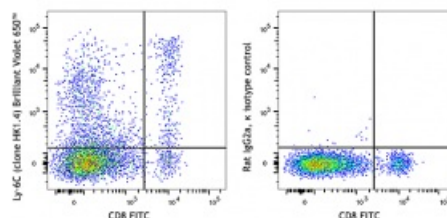
Immunogen: L3 cloned CTL cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

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

Concentration: 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with CD8 FITC and Ly-6C (clone HK1.4) Brilliant Violet 650™ (left) or rat IgG2a, κ Brilliant Violet 650™ isotype control (right).

Applications:

Applications: Flow Cytometry

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 ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 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 650™ is a trademark of Sirigen Group Ltd.

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Application Notes: Clone HK1.4 does not block the binding of clone RB6-8C5⁸.

Additional reported applications (for relevant formats of this clone) include: *in vitro* activation of T cells¹⁻³ and immunohistochemistry of frozen sections⁴.

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⁺ T cells.

Antigen
References:

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