BioLegend
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Product Data Sheet

Alexa Fluor® 647 anti-mouse Ly-6C

Catalog # / Size: 128009 / 25 µg
128010 / 100 µg

Clone: HK1.4

Isotype: Rat IgG2c, κ

Immunogen: L3 cloned CTL cells

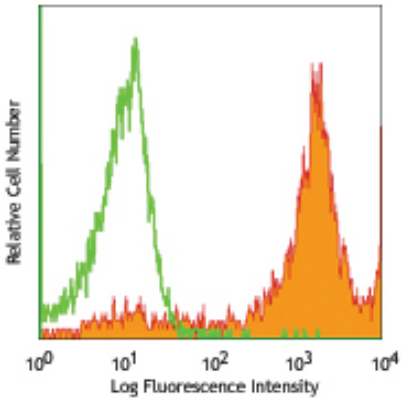
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



BALB/c bone marrow cells stained with HK1.4 Alexa Fluor® 647 (gated on myeloid cells)

Applications:

Applications: FC- *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10^6 cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.
** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for relevant formats of this clone) include: *in vitro* activation of T cells[1-3, 6] and immunohistochemistry of frozen sections[4].

Application References:
1. Jutila MA, *et al.* 1988. *Eur. J. Immunol.* 18:1819.
2. Herold KC, *et al.* 1990. *Diabetes* 39:815.
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. Indramohan M, *et al.* 2012. *Infect Immun.* 80:4099. PubMed.

Description: Most hemopoietic 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.

Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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