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# Product Data Sheet

# FITC anti-mouse Ly-6C

**Catalog # / Size:** 128005 / 50 µg
128006 / 500 µg

**Clone:** HK1.4

**Isotype:** Rat IgG2c, κ

**Immunogen:** L3 cloned CTL cells

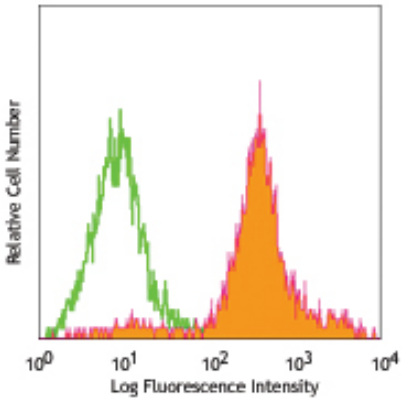
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

**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.**




*C57BL/6 bone marrow cells stained with HK1.4 FITC (gated on myeloid cell population)*

# 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.

**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. Alvarez-Breckenridge CA, *et al.* 2012. *J. Virol.* 86:4566. 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 |
|---|---|---|
| FITC Rat IgG2c, κ Isotype Ctrl | RTK4174 | FC, ICFC |
| Cell Staining Buffer | | FC, ICC, ICFC |
| RBC Lysis Buffer (10X) | | FC, ICFC |
| TruStain fcX™ (anti-mouse CD16/32) | 93 | FC |



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