

APC/Fire™ 750 anti-mouse Ly-6C Antibody

Catalog# / Size	128045 / 25 µg 128046 / 100 µg
Clone	HK1.4
Regulatory Status	RUO
Other Names	Lymphocyte antigen 6 complex, locus C
Isotype	Rat IgG2c, κ
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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	L3 cloned CTL cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes	Clone HK1.4 does not block the binding of clone RB6-8C5 ⁸ . Additional reported applications (for relevant formats of this clone) include: <i>in vitro</i> activation of T cells ¹⁻³ and immunohistochemistry of frozen sections ⁴ .
Application References	1. Jutila MA, <i>et al.</i> 1988. <i>Eur. J. Immunol.</i> 18:1819. (Activ) 2. Herold KC, <i>et al.</i> 1990. <i>Diabetes</i> 39:815. (Activ) 3. Havran WL, <i>et al.</i> 1988. <i>J. Immunol.</i> 140:1034 (Activ) 4. Flanagan K, <i>et al.</i> 2008. <i>J. Immunol.</i> 180:3874. (IHC) 5. Makaroff LE, <i>et al.</i> 2009. <i>P. Natl. Acad. Sci. USA</i> 106:4799. (FC) 6. Zuber J, <i>et al.</i> 2009. <i>Genes Dev.</i> 23:877. (FC) PubMed 7. Ribechini E, <i>et al.</i> 2009. <i>Eur. J. Immunol.</i> 39:3538. 8. Ma C, <i>et al.</i> 2012. <i>J. Leukoc. Biol.</i> 92:1199. 9. Watson NB, <i>et al.</i> 2015. <i>J Immunol.</i> 194:2796. PubMed
Product Citations	1. Zhou R, <i>et al.</i> 2022. <i>EBioMedicine.</i> 75:103762. PubMed 2. Gabriely G, <i>et al.</i> 2021. <i>iScience.</i> 24:103347. PubMed 3. Kobayashi Y, <i>et al.</i> 2018. <i>PLoS One.</i> 13:e0195008. PubMed 4. Sadek J, <i>et al.</i> 2021. <i>EMBO Mol Med.</i> 13:e13591. PubMed

5. Almutairi F, *et al.* 2021. *Front Immunol.* 12:772288. [PubMed](#)
6. Viar K, *et al.* 2020. *PLOS ONE.* 15(6):e0235110. [PubMed](#)
7. Gomez S, *et al.* 2022. *J Immunother Cancer.* 10:.. [PubMed](#)
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11. Chirivi RGS, *et al.* 2020. *Cell Mol Immunol.* . [PubMed](#)

RRID AB_2616730 (BioLegend Cat. No. 128045)
 AB_2616731 (BioLegend Cat. No. 128046)

Antigen Details

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 ⁺ T cells.
Cell Type	Endothelial cells, Macrophages, Monocytes, Neutrophils, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Jutila MA, <i>et al.</i> 1988. <i>Eur. J. Immunol.</i> 18:1819. 2. Cerwenka A, <i>et al.</i> 1998. <i>J. Immunol.</i> 161:97.
Gene ID	17067

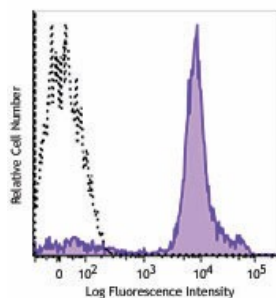
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Pacific Blue™ anti-mouse Ly-6C, APC anti-mouse Ly-6C, Purified anti-mouse Ly-6C, Biotin anti-mouse Ly-6C, FITC anti-mouse Ly-6C, Alexa Fluor® 647 anti-mouse Ly-6C, PE anti-mouse Ly-6C, PerCP/Cyanine5.5 anti-mouse Ly-6C, PE/Cyanine7 anti-mouse Ly-6C, Alexa Fluor® 488 anti-mouse Ly-6C, Alexa Fluor® 700 anti-mouse Ly-6C, APC/Cyanine7 anti-mouse Ly-6C, PerCP anti-mouse Ly-6C, Brilliant Violet 570™ anti-mouse Ly-6C, Brilliant Violet 421™ 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, Purified anti-mouse Ly-6C (Maxpar® Ready), Brilliant Violet 785™ anti-mouse Ly-6C, PE/Dazzle™ 594 anti-mouse Ly-6C, APC/Fire™ 750 anti-mouse Ly-6C, TotalSeq™-A0013 anti-mouse Ly-6C, Brilliant Violet 650™ anti-mouse Ly-6C, TotalSeq™-C0013 anti-mouse Ly-6C, TotalSeq™-B0013 anti-mouse Ly-6C, APC/Fire™ 810 anti-mouse Ly-6C Antibody

Product Data



C57BL/6 mouse bone marrow cells were stained with Ly-6C (clone HK1.4) APC/Fire™ 750 (filled histogram). Open histogram represents non-stained cells. Data shown was gated on the myeloid population.

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