

Spark PLUS B550™ anti-mouse Ly-6C Antibody

Catalog# / Size	128065 / 25 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 Spark PLUS B550™ 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. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 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	<ol style="list-style-type: none">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) PubMed7. 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
(PubMed link indicates BioLegend citation)	
RRID	AB_3698907 (BioLegend Cat. No. 128065)

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 cysteine 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

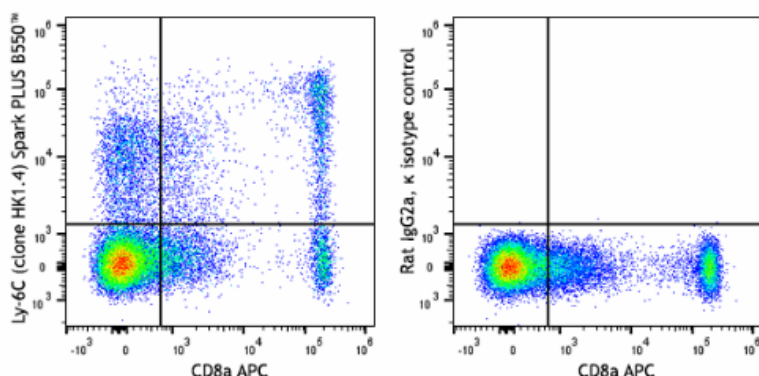
Related Protocols

- [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, Spark Red™ 718 anti-mouse Ly-6C, Spark UV™ 387 anti-mouse Ly-6C, PE/Fire™ 810 anti-mouse Ly-6C, Spark Blue™ 550 anti-mouse Ly-6C (Flexi-Fluor™), Spark Blue™ 574 anti-mouse Ly-6C (Flexi-Fluor™), PE/Cyanine5 anti-mouse Ly-6C, Spark PLUS B550™ anti-mouse Ly-6C, PerCP/Fire™ 806 anti-mouse Ly-6c Antibody, Spark YG™ 581 anti-mouse Ly-6C (Flexi-Fluor™), Spark YG™ 593 anti-mouse Ly-6C (Flexi-Fluor™) Antibody, Spark NIR™ 685 anti-mouse Ly-6C (Flexi-Fluor™) Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD8a (clone 53-6.7) APC and anti-mouse Ly-6C (clone HK1.4) Spark PLUS B550™ (left) or stained with anti-mouse CD8a (clone 53-6.7) APC only (right).

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