Purified anti-mouse Ly-6C (Maxpar® Ready) Antibody

Catalog# / Size	128039 / 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 and EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF® - Verified
Recommended Usage	This product is suitable for use with the Maxpar® Metal Labeling Kits. For metal labeling using Maxpar® Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar® Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar® User Guide when conjugating Maxpar® Ready antibodies.
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: *in vitro* activation of T cells[1-3] and immunohistochemistry of frozen sections[4].
Additional Product Notes	Maxpar® is a registered trademark of Standard BioTools Inc.

Application References

(PubMed link indicates BioLegend citation)

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

Product Citations

1. Widjaja AA, *et al.* 2019. Gastroenterology. 157:777. PubMed
2. Dasgupta D, *et al.* 2020. Gastroenterology. 159:1487. PubMed
3. Mariani SA, *et al.* 2019. Immunity. 50:1439. PubMed
4. Barvalia M, *et al.* 2022. Methods Mol Biol. 2508:147. PubMed
5. McDonald B, *et al.* 2020. Cell Host Microbe. 28(5):660-668.e4. PubMed

6. Janela B, *et al.* 2019. Immunity. 50:1069. PubMed
7. Jordan S, *et al.* 2020. Cell. 178(5):1102-1114.e17.. PubMed
8. Rustenhoven J, *et al.* 2021. Cell. 184(4):1000-1016.e27. PubMed
9. Zhu YP *et al.* 2018. Cell reports. 24(9):2329-2341 . PubMed

RRID AB_2563783 (BioLegend Cat. No. 128039)

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

Gene ID 17067

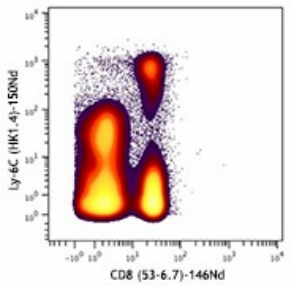
Related Protocols

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



Mouse splenocytes stained with 150Nd-anti-Ly-6C (HK1.4) and 146Nd-anti-CD8 (53-6.7). T lymphocytes are displayed in the analysis. Data provided by DVS Sciences.

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