



TotalSeq[™]-C0013 anti-mouse Ly-6C Antibody

Catalog# / Size 128051 / 10 μg

Clone HK1.4

Regulatory Status RUO

Other Names Lymphocyte antigen 6 complex, locus C

Isotype Rat lgG2c, κ

Barcode Sequence AAGTCGTGAGGCATG

DescriptionMost 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

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 1 mM EDTA

Preparation The antibody was purified by chromatography and conjugated with TotalSeg™-C oligomer under

optimal conditions.

Concentration 0.5 mg/mL

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.

Application PG - Quality tested

Recommended Usage Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric

<u>analysis</u> and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are

compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.

To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is \leq 1.0 μ g per million cells in 100 μ L volume. Refer to the corresponding TotalSeqTM

protocol for specific staining instructions.

Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and

TotalSeq™ with that platform.

Application Notes Clone HK1.4 does not block the binding of clone RB6-8C5⁸.

Additional reported applications (for relevant formats of this clone) include: in vitro activation of T

cells¹⁻³ and immunohistochemistry of frozen sections⁴.

Additional Product Notes TotalSeq™ reagents are designed to profile protein levels at a single cell level following an

optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. <u>10x</u> Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required.

Please contact <u>technical support</u> for more information, or visit <u>biolegend.com/totalseq</u>.

The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR

handle), and NNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our Scientific Poster Library.

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)
- Flanagan K, et al. 2008. J. Immunol. 180:3874. (IHC)
 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. Gomez S, et al. 2022. J Immunother Cancer. 10:. PubMed

RRID AB_2832461 (BioLegend Cat. No. 128051)

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 <u>17067</u>

Related Protocols

TotalSeq™-B or -C with 10x Feature Barcoding Technology

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® 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 570™ anti-mouse Ly-6C, Brilliant Violet 711™ anti-mouse Ly-6C, Brilliant Violet 510™ 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

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

^{*}These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license).

BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587