Ly-6C Monoclonal Antibody (HK1.4), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2c, kappa
Class	Monoclonal
Type	Antibody
Clone	HK1.4
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2735067

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	24 Publications

Product Specific Information

Description: The monoclonal antibody HK1.4 recognizes mouse Ly-6C, a GPI-linked protein of the Ly6 family. Ly-6C is found on monocytes/macrophages, endothelial cells and granulocytes as well as a subset of lymphocytes. Some variation of expression is found on different mouse strains in regards to expression on CD4 and CD8 lymphocytes. These correlate to 2 alleles both of which are recognized by HK1.4: Ly6c.1 found on C57Bl/6 and SJL cells which results in staining of both CD4 and CD8 cells while Ly6-C.2 found on BALB/c and 3H/He results in staining of CD8, but not CD4 cells.

In vitro addition with HK1.4 antibody can increase proliferation and stimulate cytokine release.

Applications Reported: This HK1.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HK1.4 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1.0 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

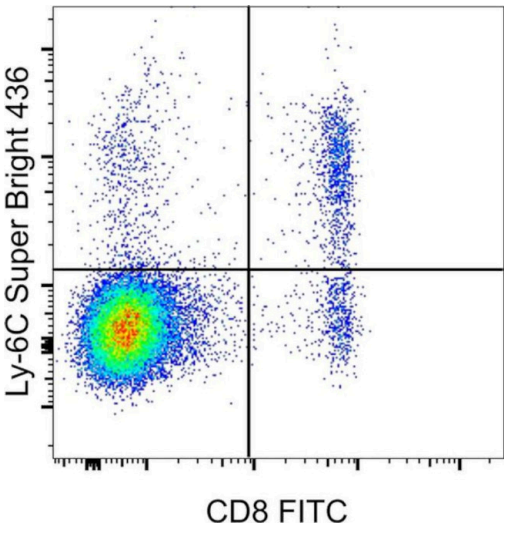
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For Ly-6C Monoclonal Antibody (HK1.4), Super Bright™ 436, eBioscience™



Ly-6C Antibody (62-5932-82) in Flow
Staining of BALB/c splenocytes with CD8a Monoclonal Antibody, FITC (Product # 11-0081-82) and 0.5 µg of Ly-6C Monoclonal Antibody, Super Bright 436. Total viable cells were used for analysis.

View more figures on thermofisher.com

24 References

Flow Cytometry (24)

Frontiers in oncology

Year
2022

Antitumor Effect and Immune Response of Nanosecond Pulsed Electric Fields in Pancreatic Cancer.

"Published figure using Ly-6C monoclonal antibody (Product # 62-5932-82) in Flow Cytometry"

Authors: Zhao J,Chen S,Zhu L,Zhang L,Liu J,Xu D,Tian G,Jiang T

Cellular and molecular gastroenterology and hepatology

Year
2022

Pancreatic Cancer Chemotherapy Is Potentiated by Induction of Tertiary Lymphoid Structures in Mice.

"Published figure using Ly-6C monoclonal antibody (Product # 62-5932-82) in Flow Cytometry"

Authors: Delvecchio FR,Fincham REA,Spear S,Clear A,Roy-Luzarraga M,Balkwill FR,Gribben JG,Bombardieri M, Hodivala-Dilke K,Capasso M,Kocher HM

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