CD123 Monoclonal Antibody (6H6), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	6H6
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2662727

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/Test	10 Publications

Product Specific Information

The 6H6 monoclonal antibody reacts with human CD123, the alpha chain of the IL-3 receptor. This 60-70 kDa transmembrane protein binds to IL-3 with low affinity by itself, and when associated with CD131 (common beta chain) binds IL-3 with high affinity. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, and megakaryocytes.

This 6H6 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 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.

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-4401-42) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

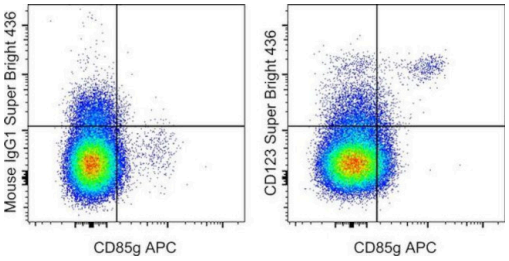
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 L of cell sample + 100 L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and

FRET efficiency/compensation. Some generalizations regarding fluorochrome 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 CD123 Monoclonal Antibody (6H6), Super Bright™ 436, eBioscience™



CD123 Antibody (62-1239-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD85g (ILT7) APC (Product # 17-5179-42) and Mouse IgG1 K Isotype Control Super Bright 436 (Product # 62-4714-82) (left) or Anti-Human CD123 Super Bright 436 (right). Cells in the monocyte gate were used for analysis.

View more figures on thermofisher.com

10 References

Flow Cytometry (10)

NPJ breast cancer

High-dimensional immune cell profiling of cerebrospinal fluid from patients with metastatic breast cancer and leptomeningeal disease.

"62-1239-42 was used in Flow cytometry/Cell sorting to suggest that patients with LMD may have lower overall immune infiltrates than patients without LMD, suggesting a more permissive CSF immune microenvironment but a higher frequency of partially exhausted CD8+ T cells, which may offer an important therapeutic target."

Authors: Im KW,Huppert LA,Malevanchik L,Rugo HS,Combes AJ,Campbell MJ,Krummel MF,Melisko ME

Year
2023

Species
Human

The Journal of experimental medicine

Impaired IL-23-dependent induction of IFN- underlies mycobacterial disease in patients with inherited TYK2 deficiency.

"62-1239-42 was used in Flow cytometry/Cell sorting to show that partial TYK2 deficiency across signaling pathways, or rare or common partial TYK2 deficiency specific for IL-23 signaling."

Authors: Ogishi M,Arias AA,Yang R,Han JE,Zhang P,Rinchai D,Halpern J,Mulwa J,Keating N,Chrabieh M,Lainé C, Seeleuthner Y,Ramírez-Alejo N,Nekooie-Marnany N,Guennoun A,Muller-Fleckenstein I,Fleckenstein B,Kilic SS, Minegishi Y,Ehl S,Kaiser-Labusch P,Kendir-Demirkol Y,Rozenberg F,Errami A,Zhang SY,Zhang Q,Bohlen J,Philippot Q, Puel A,Jouanguy E,Pourmoghaddas Z,Bakhtiar S,Willasch AM,Horneff G,Llanora G,Shek LP,Chai LYA,Tay SH,Rahimi HH,Mahdaviani SA,Nepesov S,Bousfiha AA,Erdeniz EH,Karbuz A,Marr N,Navarrete C,Adeli M,Hammarstrom L, Abolhassani H,Parvaneh N,Al Muhsen S,Alosaimi MF,Alsohime F,Nourizadeh M,Moin M,Arnaout R,Alshareef S,El-Baghdadi J,Genel F,Sherkat R,Kiykim A,Yücel E,Keles S,Bustamante J,Abel L,Casanova JL,Boisson-Dupuis S

Year
2022

Species
Human

Dilution
1:40

View more Flow references on thermofisher.com

More applications with references on thermofisher.com