

HELIOS Monoclonal Antibody (22F6), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog, Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	22F6
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572758

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.03 µg)/test	17 Publications

Product Specific Information

Description: This 22F6 monoclonal antibody reacts with human, mouse and canine Helios. Helios is a zinc-finger transcription factor first identified for its similarity to Ikaros. It is expressed in hematopoietic stem cells in both the embryo and adult mice. While the highest expression is found in regulatory T cells, Helios is not expressed in mature B cells, dendritic cells or myeloid cells. Helios can form a homodimer as well as heterodimerize with other Ikaros family members to regulate transcription. Eight isoforms of Helios exist, some of which possess a dominant-negative function that has also been found to be upregulated in lymphoid malignancies, including T-acute lymphoblastic leukemia.

22F6 has been reported to cross react with rat Helios.

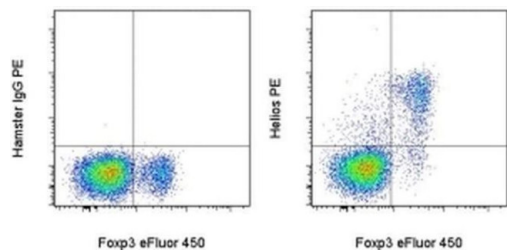
Applications Reported: This 22F6 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This 22F6 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of mouse lymph node cell using the Foxp3/Transcription Factor Buffer Set (Product # 00-5523-00) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5 µL (0.03 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 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For HELIOS Monoclonal Antibody (22F6), PE, eBioscience™



HELIOS Antibody (12-9883-42) in Flow
Intracellular staining of C57Bl/6 mouse lymph node cells with Anti-Mouse/Rat FcγR3 eFluor® 450 (Product # 48-5773-82) and Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (left) or Anti-Helios PE (right) using the FcγR3 /Transcription Factor Buffer Set (Product # 00-5523-00) and protocol. CD4+ (Product # 17-0041-82) cells in the lymphocyte gate were used for analysis.

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17 References

Flow Cytometry (17)

<p>Inflammopharmacology</p> <p>Dexmedetomidine alleviates acute lung injury by promoting Tregs differentiation via activation of AMPK/SIRT1 pathway.</p> <p>"12-9883-42 was used in Flow cytometry/Cell sorting to explore the anti-inflammatory effect and the potential mechanism of dexmedetomidine in ARDS/ALI."</p> <p>Authors: Zhang ZT,Xie K,Luo RJ,Zhang DY,He ZW,Li KF,Lin SH,Xu F</p>	<p>Year 2023</p> <p>Species Mouse</p>
<p>iScience</p> <p>Activation-induced cytidine deaminase expression by thymic B cells promotes T-cell tolerance and limits autoimmunity.</p> <p>"Published figure using HELIOS monoclonal antibody (Product # 12-9883-42) in Flow Cytometry"</p> <p>Authors: Lombard-Vadnais F,Chabot-Roy G,Zahn A,Rodriguez Torres S,Di Noia JM,Melichar HJ,Lesage S</p>	<p>Year 2023</p>

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