

HELIOS Monoclonal Antibody (22F6), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog, Human, Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	22F6
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2637136

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.015 µg)/test	10 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 cells using the Foxp3/Transcription Factor Buffer Set (cat. 00-5523) 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 antibody can be used at 5 µL (0.015 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.

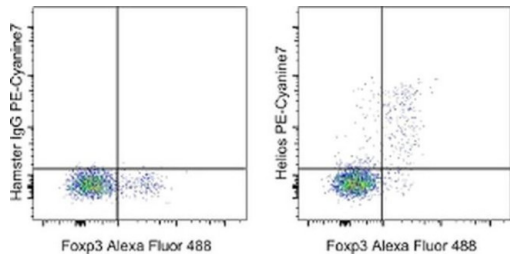
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For HELIOS Monoclonal Antibody (22F6), PE-Cyanine7, eBioscience™



HELIOS Antibody (25-9883-42) in Flow
Intracellular staining of BALB/c lymph node cells with Anti-Mouse/Rat Fxpx3 Alexa Fluor® 488 (Product # 53-5773-82) and Armenian Hamster IgG Isotype Control PE-Cyanine7 (Product # 25-4888-82) (left) or Anti-Helios PE-Cyanine7 (right) using the Fxpx3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. CD4+ T cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

10 References

Flow Cytometry (10)

iScience	Year 2023
Activation-induced cytidine deaminase expression by thymic B cells promotes T-cell tolerance and limits autoimmunity.	
"Published figure using HELIOS monoclonal antibody (Product # 25-9883-42) in Flow Cytometry"	
Authors: Lombard-Vadnais F,Chabot-Roy G,Zahn A,Rodriguez Torres S,Di Noia JM,Melichar HJ,Lesage S	
Nature communications	Year 2022
Mesenchymal stem cells transfer mitochondria to allogeneic Tregs in an HLA-dependent manner improving their immunosuppressive activity.	
"Published figure using HELIOS monoclonal antibody (Product # 25-9883-42) in Flow Cytometry"	
Authors: Piekarska K,Urban-Wójciuk Z,Kurkowiak M,Pelikant-Maecka I,Schumacher A,Sakowska J,Spodnik JH, Arcimowicz ,Zieliska H,Tymoniuk B,Renkielska A,Siebert J,Somiska E,Trzonkowski P,Hupp T,Marek-Trzonkowska NM	

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.