

Human Helios Antibody

Monoclonal Mouse IgG₁ Clone # 736440 Catalog Number: MAB73092

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Helios in direct ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 736440
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human Helios Met1-Gln97 Accession # Q9UKS7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

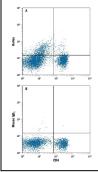
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled ι with conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere

DATA

Intracellular Staining by Flow Cytometry



Detection of Helios in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human CD4 APC-conjugated Monoclonal Antibody (Catalog # FAB3791A) and either (A) Mouse Anti-Human Helios Monoclonal Antibody (Catalog # MAB73092) or (B) Mouse IgG, Isotype Control (Catalog # MAB002) followed by

Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE				
Peconstitution	Reconstitute at 0.5 mg/ml in sterile PBS			

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Shipping

Helios, also known as IKZF2, is a 70 kDa DNA-binding transcription regulator in the Ikaros family that contains four N-terminal C2H2-type zinc finger domains (aa 112-219) and two C-terminal zinc finger domains (aa 471-523). Helios is expressed in developing hematopoietic and epithelial tissues and in adult T cells and thymic-derived regulatory T cells (Treg). It forms homodimers and also heterodimers with other Ikaros family proteins Ikaros, Pegasus, Eos, and Aiolos. Alternate splicing of human Helios generates a short isoform that lacks three of the the N-terminal zinc finger domains. This isoform is overexpressed in T cell leukemias where it can still dimerize with Ikaros proteins but functions as a dominant negative regulator. Within aa 1-97, human and mouse Helios share 96% aa sequence identity.

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