

Purified anti-mouse/human Helios Recombinant Antibody

Catalog# / Size	105402 / 100 µg
Clone	QA20A52
Regulatory Status	RUO
Other Names	IKZF2, IKAROS family zinc finger 2, ANF1A2, ZNF1A2, ZNFN1A2
Isotype	Rat IgG1, κ
Description	

Helios is a member of the Ikaros family of zinc finger transcription factors. It contains a C-terminal region composed of 2 zinc-finger domains that mediate dimerization between the family members. Helios was originally cloned from a mouse thymoma line. It is mainly expressed in peripheral T cells and thymocytes. It is found at high levels in a subpopulation of regulatory T cells. Helios plays an important role in T cell development and homeostasis. Overexpression of Helios profoundly alters αβ T cell differentiation and activation. It has been determined that silencing of Helios in B cells is critical for maintaining normal B cell function. Helios is also involved in tumor immunity.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	ICFC - Quality tested Block - Verified
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.03 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Clone QA20A52 is able to completely block the staining of clone 22F6 on target cells.
RRID	AB_2904278 (BioLegend Cat. No. 105402)

Antigen Details

Structure	A zinc finger nuclear transcription factor of the Ikaros family, containing 2 zinc-finger domains in C-terminal region.
Distribution	Regulatory T cells (Tregs), conventional T cells, thymocytes
Function	Plays an important role in T cell development and homeostasis, involved in tumor immunity.
Cell Type	T cells, Thymocytes, Tregs
Biology Area	Adaptive Immunity, Cell Biology, Immunology, Transcription Factors
Molecular Family	Nuclear Markers
Antigen References	

1. Kelly CM, *et al.* 1998. *Curr. Biol.* 8:508.
2. Dovat S, *et al.* 2005. *J. Immunol.* 175:3508.
3. Cortes M, *et al.* 1999. *Curr. Opin. Immunol.* 11:167.
4. Cai Q, *et al.* 2009. *J. Immunol.* 183:2303.
5. Zhang Z, *et al.* 2007. *Blood* 109:2190.
6. Hahm K, *et al.* 1998. *Genes Dev.* 12:782.

Gene ID [22779](#)
[22807](#)

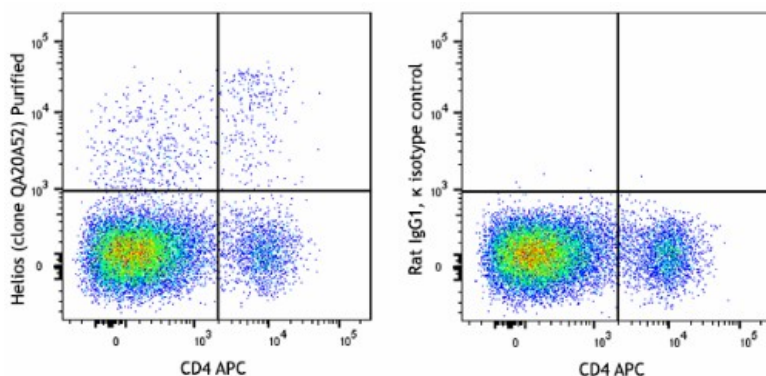
Related Protocols

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse/human Helios Recombinant Antibody, Purified anti-mouse/human Helios Recombinant Antibody

Product Data



C57BL/6 mouse splenocytes were surface stained with anti-mouse CD4 APC and then fixed and perm using True-Nuclear™ Transcription Factor Buffer Set. Cells were then intracellularly stained with purified anti-Helios recombinant (clone QA20A52) (left) or rat IgG1, κ isotype control (right) followed by anti-rat IgG1 PE.

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