

ARG65382 anti-Helios antibody [22F6]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Hamster Monoclonal antibody [22F6] recognizes Helios
Tested Reactivity	Hu, Ms
Tested Application	CyTOF®-candidate, FACS
Specificity	The armenian hamster monoclonal antibody 22F6 recognizes Helios, a transcription factor expressed in some hematopoietic stem cells, and at high levels in thymicderived regulatory T cells.
Host	Hamster
Clonality	Monoclonal
Clone	22F6
Isotype	IgG
Target Name	Helios
Immunogen	Peptide corresponding to the amino acids 51-107 of Helios
Conjugation	Un-conjugated
Alternate Names	HELIOS; ZNF1A2; Ikaros family zinc finger protein 2; ANF1A2; Zinc finger protein Helios; ZNFN1A2

Application Instructions

Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	FACS	1 - 4 µg/ml

Application Note

FACS: Staining method: - Perform staining of cell surface markers (CD25, CD4 etc.) for 20 min. at RT in the dark; 100 µl of peripheral blood. - Add 3 ml of PBS with 1% BSA, centrifugate at 300g and discard the supernatant. Further steps perform on ice and with ice-cold reagents. - Resuspend the cells in 5 ml of cold fixation solution (Miltenyi Biotec) and incubate for 30 min. on ice. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 5 ml of ice-cold PBS with 1% BSA. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 5 ml of ice-cold permeabilization solution (Miltenyi Biotec) and incubate 5 min. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 80µl of ice-cold permeabilization solution and add 20 µl of FcR blocking solution and incubate for 5 min. (4°C, in the dark). - Perform intracellular staining of Helios for 30 min. (4°C, in the dark) with 10 µl of anti-Helios PE antibody (22F6) in 100 µl. - Add 2 ml of ice-cold permeabilization solution and incubate for 5 min. at 4°C in the dark. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 3 ml of ice-cold PBS with 1% BSA. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 150 µl of ice-cold PBS with 1% BSA and measure on a FACS device with appropriate setting as soon as possible. Keep cold until measuring.

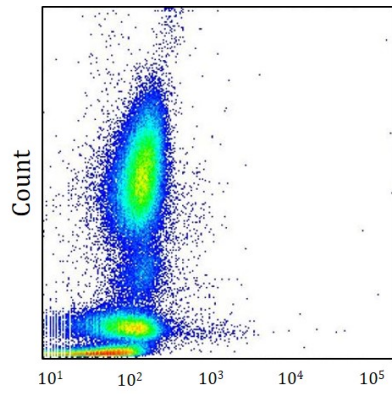
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 22779 Mouse GeneID: 22807 Human Swiss-port # P81183 Mouse Swiss-port # Q9UKS7 Human
Gene Symbol	IKZF2
Gene Full Name	IKAROS family zinc finger 2 (Helios)
Background	Helios, also known as IKZF2 (Ikaros family zinc finger protein 2) is a hematopoietic-specific transcription factor involved in the regulation of lymphocyte development, together with other members of this family, such as Aiolos and Ikaros. Helios forms homo- and heterodimers with these proteins and is thought to function predominantly in early hematopoietic development. Expression of Helios, Aiolos and Ikaros is restricted to cells of the hematopoietic system, whereas other family members, Eos and Pegassus, are more widely expressed. Helios is expressed at early stages of thymocyte development. In mature T cells, Helios has been strongly associated with Treg cells.
Function	Associates with Ikaros at centromeric heterochromatin. [UniProt]
Highlight	Related products: Helios antibodies: Anti-Hamster IgG secondary antibodies: Related news: CyTOF-candidate Antibodies
Research Area	Controls and Markers antibody; Gene Regulation antibody; Immune System antibody
Calculated Mw	60 kDa



ARG65382 anti-Helios antibody [22F6] FACS image

Flow Cytometry: Human peripheral stained with ARG65382 anti-Helios antibody [22F6] at 8 $\mu\text{g}/\text{ml}$ dilution.