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Datasheet for ABIN2749084 anti-IKZF2 antibody (AA 51-107)

1 Image

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Overview

Quantity:	0.1 mg
Target:	IKZF2
Binding Specificity:	AA 51-107
Reactivity:	Human, Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This IKZF2 antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Peptide coresponding to the amino acids 51-107 of Helios	
Clone:	22F6	
lsotype:	lgG	
Specificity:	The Armenian hamster monoclonal antibody 22F6 recognizes Helios, a transcription factor (intracellular antigen) expressed in some hematopoietic stem cells, and at high levels in thymic- derived regulatory T cells. The epitope is located between amino acids 51 and 107.	
Cross-Reactivity (Details):	Human, Mouse	
Purification:	Purified by protein-A affinity chromatography.	
Purity:	> 95 % (by SDS-PAGE)	

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Target Details

Target:	IKZF2	
Alternative Name:	Helios (IKZF2 Products)	
Background:	IKAROS family zinc finger 2,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.,ANF1A2, IKZF2	
Gene ID:	22807	
UniProt:	Q9UKS7	

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.,Recommended protocol: 1) Perform
	staining of cell surface markers (CD25, CD4 etc.) for 20 min. at room temperature in the dark,
	100 μL of peripheral blood. 2) 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. 3) Resuspend the
	cells in 5 mL of cold fixation solution (Miltenyi Biotec) and incubate for 30 min. on ice. 4)
	Centrifugate for 5 min. at 1000 g, 4 °C, and discard the supernatant. 5) Resuspend the cells in
	5 mL of ice-cold PBS with 1 % BSA. 6) Centrifugate for 5 min. at 1000 g, 4 °C, and discard the
	supernatant. 7) Resuspend the cells in 5 mL of ice-cold permeabilization solution (Miltenyi
	Biotec) and incubate 5 min. 8) Centrifugate for 5 min. at 1000 g, 4 °C, and discard the
	supernatant. 9) Resuspend the cells in μI of ice-cold permeabilization solution and add 20 μL of
	FcR blocking solution and incubate for 5 min. (4 $^\circ$ C, in the dark). 10) 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 11) Add 2 mL of ice-cold permeabilization solution and incubate for 5 min. at 4 °C in the
	dark. 12) Centrifugate for 5 min. at 1000 g, 4 °C, and discard the supernatant. 13) Resuspend
	the cells in 3 mL of ice-cold PBS with 1 % BSA. 14) Centrifugate for 5 min. at 1000 g, 4 °C, and
	discard the supernatant. 15) Resuspend the cells in 150 μL of ice-cold PBS with 1 % BSA and
	measure on a flow cytometry device with appropriate setting as soon as possible. Keep cold
	until measuring.

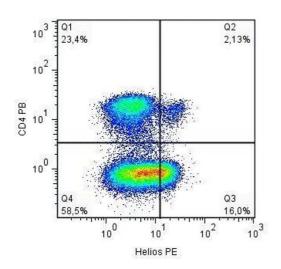
Restrictions:

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Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.
Publications	
Product cited in:	Blankenhaus, Reitz, Brenz, Eschbach, Hartmann, Haben, Sparwasser, Huehn, Kühl, Feyerabend,
	Rodewald, Breloer: "Foxp3? regulatory T cells delay expulsion of intestinal nematodes by
	suppression of IL-9-driven mast cell activation in BALB/c but not in C57BL/6 mice." in: PLoS
	pathogens, Vol. 10, Issue 2, pp. e1003913, (2014) (PubMed).
	McIver, Melenhorst, Wu, Grim, Ito, Cho, Hensel, Battiwalla, Barrett: "Donor lymphocyte count and
	thymic activity predict lymphocyte recovery and outcomes after matched-sibling hematopoietic
	stem cell transplant." in: Haematologica , Vol. 98, Issue 3, pp. 346-52, (2013) (PubMed).
	Serre, Bénézech, Desanti, Bobat, Toellner, Bird, Chan, Kastner, Cunningham, Maclennan, Mohr: "
	Helios is associated with CD4 T cells differentiating to T helper 2 and follicular helper T cells in
	vivo independently of Foxp3 expression." in: PLoS ONE , Vol. 6, Issue 6, pp. e20731, (2011) (
	PubMed).
	Pinheiro, Singh, Grant, Appleton, Sacchini, Walker, Chadbourne, Palmer, Armitage-Chan,
	Thompson, Williamson, Cunningham, Garden: "Phenotypic and functional characterization of a
	CD4(+) CD25(high) FOXP3(high) regulatory T-cell population in the dog." in: Immunology , Vol.



Flow Cytometry

Image 1. Human peripheral blood lymphocytes were stained with anti-CD4 Pacific

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