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Datasheet for ABIN2749147

anti-IKZF2 antibody (AA 51-107) (PE)

1 Image

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Overview

Quantity:	100 tests
Target:	IKZF2
Binding Specificity:	AA 51-107
Reactivity:	Human, Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This IKZF2 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Peptide corresponding to the amino acids 51-107 of Helios
Clone:	22F6
Isotype:	IgG
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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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

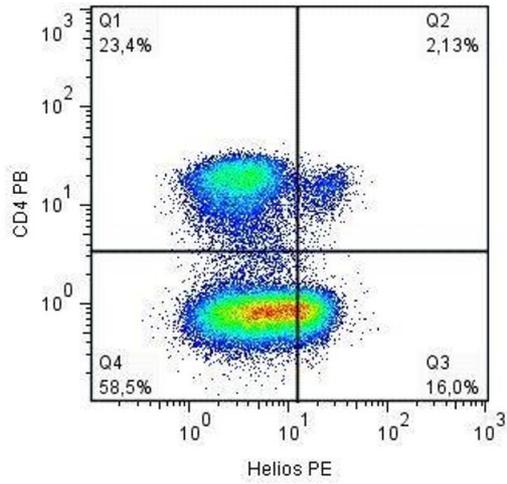
Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Intracellular staining.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing 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. Protect from prolonged exposure to light. Do not freeze.

- 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](#)).
- Atarashi, Tanoue, Oshima, Suda, Nagano, Nishikawa, Fukuda, Saito, Narushima, Hase, Kim, Fritz, Wilmes, Ueha, Matsushima, Ohno, Olle, Sakaguchi, Taniguchi, Morita, Hattori, Honda: "Treg induction by a rationally selected mixture of Clostridia strains from the human microbiota." in: **Nature**, Vol. 500, Issue 7461, pp. 232-6, (2013) ([PubMed](#)).
- Mclver, 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. 132, Issue 1, pp. 111-22, (2010) ([PubMed](#)).



Flow Cytometry

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