

## PerCP/Cyanine5.5 anti-human Ikaros Antibody

<b>Catalog# / Size</b>	368415 / 25 tests 368416 / 100 tests
<b>Clone</b>	16B5C71
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	IK1, IKZF1
<b>Isotype</b>	Mouse IgG2a, $\kappa$
<b>Description</b>	Ikaros, also known as IKZF1, belongs to a family of zinc-finger DNA-binding proteins that regulate lymphocyte differentiation. It has the ability to form homo- and heterodimers with other members of the Ikaros family, which include Aiolos and Helios. Ikaros can be found on a majority of fetal and adult hematopoietic cell types such as T- and B-cells, natural killer cells (NKs), monocytes/macrophages, and dendritic cells. Ikaros is a tumor suppressor and its absence or reduced expression has been reported in several leukemias.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human Ikaros peptide (431-477 aa) conjugated to KLH Freund's adjuvant.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ICFC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Nuclear™ Transcription Factor Staining Protocol. For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per $10^6$ cells in 100 $\mu$ L volume. It is highly recommended that the reagent be titrated for optimal performance for each application.  * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	There are eight splicing variants with predicted MW 58, 53, 48(2), 43, 41, 31, 24 KDa. This antibody might recognize some of the isoforms.
<b>RRID</b>	AB_3662272 (BioLegend Cat. No. 368415) AB_3662272 (BioLegend Cat. No. 368416)

### Antigen Details

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<b>Structure</b>	Zinc-finger DNA binding protein, homo/heterodimer, 57.5 kD
<b>Distribution</b>	Fetal and adult hematopoietic cells.

<b>Function</b>	Regulates lymphocyte differentiation.
<b>Interaction</b>	DNA.
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Cell Biology, Chromatin Remodeling/Epigenetics, Immunology, Signal Transduction, Transcription Factors
<b>Molecular Family</b>	Nuclear Markers
<b>Antigen References</b>	1. Wargnier A, <i>et al.</i> 1995. <i>Proc. Natl. Acad. Sci. USA</i> 92:6930. 2. Tonnelle C, <i>et al.</i> 2009. <i>Mol. Immunol.</i> 46:1736. 3. Wang H, <i>et al.</i> 2014. <i>Pediatr. Blood Cancer</i> 61:2230.
<b>Gene ID</b>	<a href="#">10320</a>

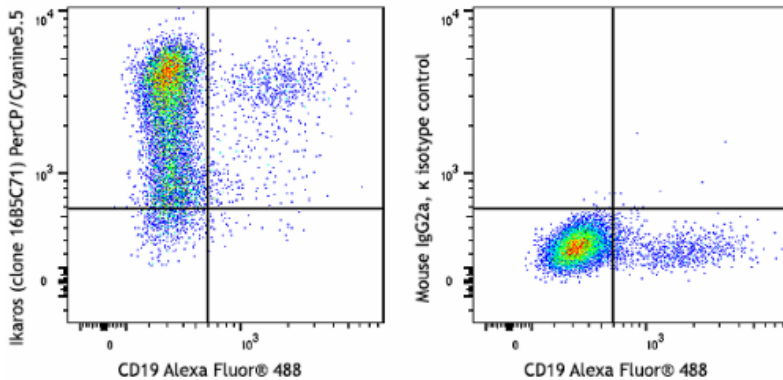
## Related Protocols

- [True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)
- [True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes](#)

## Other Formats

Purified anti-human Ikaros, Alexa Fluor® 647 anti-human Ikaros, Brilliant Violet 421™ anti-human Ikaros, Alexa Fluor® 488 anti-human Ikaros, PE anti-human Ikaros, APC anti-human Ikaros, PE/Cyanine7 anti-human Ikaros, PerCP/Cyanine5.5 anti-human Ikaros

## Product Data



Human peripheral blood mononuclear cells were surface stained with anti-human CD19 (clone HIB19) Alexa Fluor® 488 and then treated with True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401). Cells were then intracellularly stained with anti-human Ikaros (clone 16B5C71) PerCP/Cyanine5.5 (left) or mouse IgG2a, κ PerCP/Cyanine5.5 isotype control (right). Data shown is gated on lymphocyte population.

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