

## PE/Cyanine7 anti-human Ikaros Antibody

<b>Catalog# / Size</b>	368413 / 25 tests 368414 / 100 tests
<b>Clone</b>	16B5C71
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	IK1, IKZF1
<b>Isotype</b>	Mouse IgG2a, κ
<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

---

<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 PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<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 <a href="#">True-Phos™ Perm Buffer in Whole Blood Protocol</a> . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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>Additional Product Notes</b>	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>RRID</b>	AB_2734415 (BioLegend Cat. No. 368413) AB_2734416 (BioLegend Cat. No. 368414)

### Antigen Details

---

<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. Wagnier 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

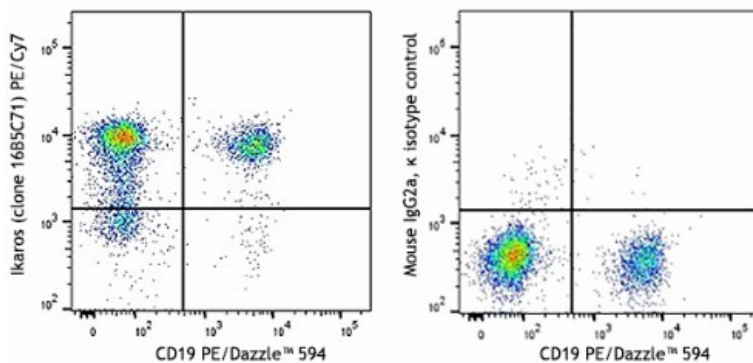
[Intracellular Staining With True-Phos™ Perm Buffer in Cell Suspensions Protocol](#)

[Intracellular Staining With True-Phos™ Perm Buffer in Whole Blood](#)

## 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

## Product Data



Human peripheral blood mononuclear cells were stained with CD19 PE/Dazzle™ 594, treated with the True-Nuclear™ Transcription Factor Buffer Set, and then stained with Ikaros (clone 16B5C71) PE/Cyanine7 (left) or Mouse IgG2a, κ PE/Cyanine7 isotype control (right).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587