

Alexa Fluor® 647 anti-human Ikaros Antibody

Catalog# / Size	368403 / 25 tests 368404 / 100 tests
Clone	16B5C71
Regulatory Status	RUO
Other Names	IK1, IKZF1
Isotype	Mouse IgG2a, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human Ikaros peptide (431-477 aa) conjugated to KLH Freund's adjuvant.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
Application Notes	NOTE: For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401) offers improved staining and is highly recommended.
RRID	AB_2566182 (BioLegend Cat. No. 368403) AB_2566183 (BioLegend Cat. No. 368404)

Antigen Details

Structure	Zinc-finger DNA binding protein, homo/heterodimer, 57.5 kD
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Distribution	Fetal and adult hematopoietic cells.
Function	Regulates lymphocyte differentiation.
Interaction	DNA.
Cell Type	B cells, Dendritic cells
Biology Area	Cell Biology, Chromatin Remodeling/Epigenetics, Immunology, Signal Transduction, Transcription Factors
Molecular Family	Nuclear Markers
Antigen References	<ol style="list-style-type: none"> 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.
Gene ID	10320

Related Protocols

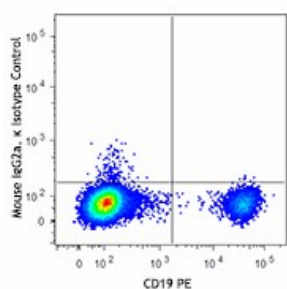
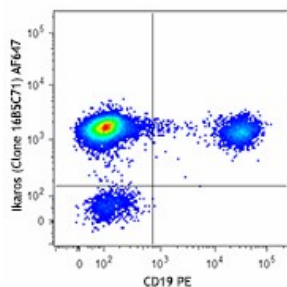
[True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)

[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

Product Data



Human peripheral blood mononuclear cells were stained with CD19 PE, treated with the True-Nuclear™ Transcription Factor Buffer Set, and then stained with Ikaros (clone 16B5C71) Alexa Fluor® 647 (top) or mouse IgG2a, κ Alexa Fluor® 647 isotype control (bottom).

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