

## Purified anti-human Ikaros Antibody

<b>Catalog# / Size</b>	687102 / 100 µg
<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

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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.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">WB - Quality tested</a> <a href="#">ChIP - Verified</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested use of this reagent is 0.5 - 2.0 µg per mL. The recommended starting antibody to chromatin ratio is 4 µg of antibody and 5 µg of chromatin per IP. Optimal antibody to chromatin ratio should be determined by the end user. It is recommended that the reagent be titrated for optimal performance for each application.
<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_2616940 (BioLegend Cat. No. 687102)

### 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

**Molecular Family** Nuclear Markers

**Antigen References**

1. Wagnier A, *et al.* 1995. *Proc. Natl. Acad. Sci. USA* 92:6930.
2. Tonnelle C, *et al.* 2009. *Mol. Immunol.* 46:1736.
3. Wang H, *et al.* 2014. *Pediatr. Blood Cancer* 61:2230.

**Gene ID** [10320](#)

## Related Protocols

[BioLegend's Tools for Chromatin Immunoprecipitation \(ChIP\) Assays - Video](#)

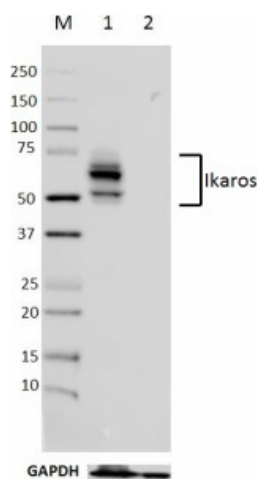
[Chromatin Immunoprecipitation \(ChIP\) Assay Protocol](#)

[Western Blotting Protocol](#)

## Other Formats

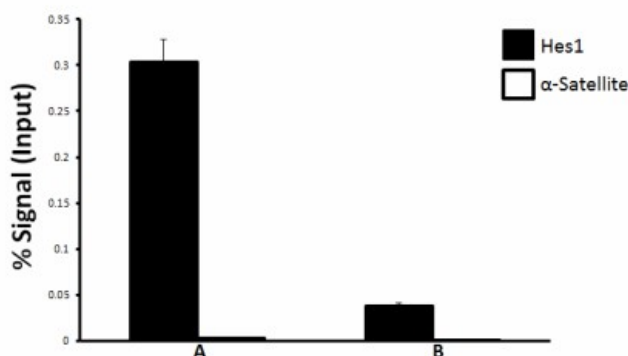
Purified anti-human Ikaros, Alexa Fluor® 647 anti-human Ikaros, Brilliant Violet 421™ anti-human Ikaros, Alexa Fluor® 488 anti-human Ikaros, PE anti-human Ikaros, APC anti-human Ikaros, PE/Cyanine7 anti-human Ikaros

## Product Data



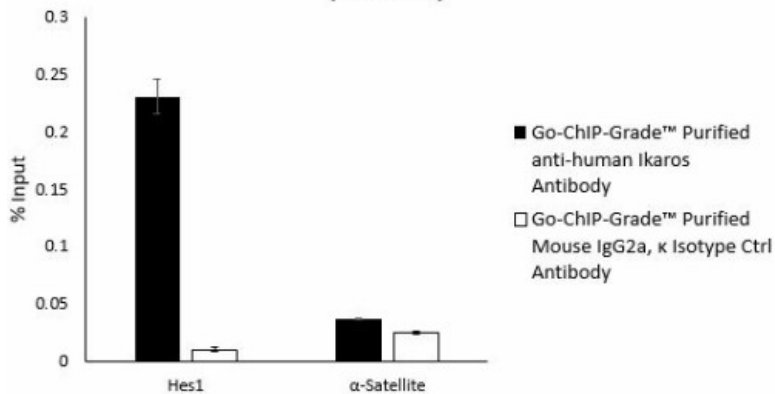
Total lysates (15 µg protein) from Jurkat (lane 1) and HeLa cells (lane 2) were resolved by electrophoresis (4-20% Tris-Glycine gel), transferred to nitrocellulose, and probed with 0.5 µg/mL (1:1000) Purified anti-ikaros Antibody, clone 16B5C71 (upper), or 1:2000 diluted anti-GAPDH Antibody (lower). Proteins were visualized by chemiluminescence detection using a 1:3000 diluted goat anti-mouse-IgG secondary antibody conjugated to HRP for the anti-ikaros Antibody, or 1:3000 diluted donkey anti-Rabbit-IgG secondary antibody conjugated to HRP for anti-GAPDH Antibody. Lane M: Molecular weight ladder.

### Go-ChIP-Grade™ Purified anti-human Ikaros Antibody (16B5C71)



Chromatin Immunoprecipitations (ChIP) were done with fixed and sonicated chromatin samples from Jurkat cells. ChIP was performed with 5 µg of chromatin and either 4 µg of Go-ChIP-Grade™ purified anti-human Ikaros antibody (clone 16B5C71, Cat. No. 687104), or equal amount of Go-ChIP-Grade™ purified mouse IgG2a, κ isotype ctrl antibody (clone MG2a-53, Cat. No. 401506). The enriched DNA was purified and quantified by real-time qPCR using SYBR Green and primers for the human Hes1 promoter region, and the human alpha-Satellite repeat element. The amount of immunoprecipitated DNA in each sample is represented as a percentage of the total amount of input chromatin, which is equivalent to 100%.

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