abcam

ab236227

Anti-Ikaros antibody [SP108] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP108
Purification technique	Affinity purification Protein A/G
Concentration	1.01 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by protein A/G.

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

Flow Cyt

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Antigen Retrieval by boiling tissue section in EDTA buffer, pH 8.0 for 10 min followed by cooling at RT for 20 min is recommended.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-

Notes	-

Target data

See full target information IKZF1

Function	Transcription regulator of hematopoietic cell differentiation (PubMed:17934067). Binds gamma-satellite DNA (PubMed:17135265, PubMed:19141594). Plays a role in the development of lymphocytes, B- and T-cells. Binds and activates the enhancer (delta-A element) of the CD3-delta gene. Repressor of the TDT (fikzfterminal deoxynucleotidyltransferase) gene during thymocyte differentiation. Regulates transcription through association with both HDAC-dependent and HDAC-independent complexes. Targets the 2 chromatin-remodeling complexes, NuRD and BAF (SWI/SNF), in a single complex (PYR complex), to the beta-globin locus in adult erythrocytes. Increases normal apoptosis in adult erythroid cells. Confers early temporal competence to retinal progenitor cells (RPCs) (By similarity). Function is isoform-specific and is modulated by dominant-negative inactive isoforms (PubMed:17135265, PubMed:17934067).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab236227 is the carrier-free version of ab105228.
What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes,

oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Ikaros also known as IKZF1 is a transcription factor. You also find it being referred to as the Ikaros protein or Ikaros code. It has a molecular mass of about 58-60 kDa. Ikaros expresses mostly in hematopoietic cells including precursors from which various blood cell types derive. It plays a significant role in regulating gene expression and cellular differentiation modulating the chromatin structure to control access to DNA.
Biological function summary	Ikaros protein functions in the regulation of lymphoid cell development. It is a part of a chromatin-remodeling complex influencing chromatin accessibility. Through its zinc finger domains it binds to specific DNA sequences controlling genes necessary for lymphocyte differentiation and proliferation. Ikaros influences various cell types within the immune system especially affecting T and B cell development and also regulates cytokine receptor genes necessary for proper immune function.
Pathways	The Ikaros protein is critical to lymphocyte signaling pathways particularly the JAK/STAT and NF-κB pathways. In these pathways Ikaros interacts with other transcription factors like GATA3 and STAT5 integrating signals that are important for immune cell function and development. This integration allows a coordinated response to extracellular signals ensuring effective immune responses or tolerance.
Associated diseases and disorders	Ikaros is associated with leukemia and lymphomas. Alterations or mutations in ikaros gene can lead to misregulation of its target genes contributing to the development of these diseases by disturbing normal hematopoietic processes. Moreover its interaction with TAL1 protein is significant in certain leukemias where disturbances in the balance of their activities can lead to malignancies. Understanding Ikaros's role provides insights for therapeutic approaches in these blood disorders.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

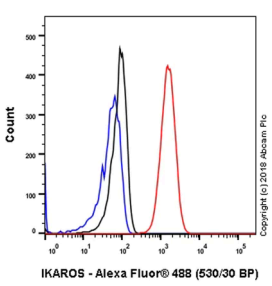
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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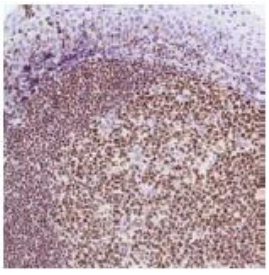
3 product images



Flow Cytometry (Intracellular) - Anti-Ikaros antibody [SP108] - BSA and Azide free (ab236227)

Ikaros Flow Cytometry (Intracellular) staining using rabbit Anti-Ikaros antibody

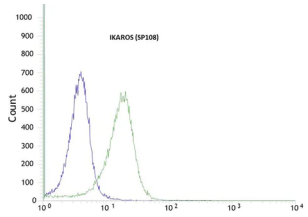
Intracellular Flow Cytometry analysis of Molt-4 (human acute lymphoblastic leukemia) labeling Ikaros with purified ab105228 at 1/40 dilution (7.725µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as a secondary antibody. Isotypecontrol - Rabbit monoclonal IgG (ab172730) (black). Unlableled control - Unlabelled cells (blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab105228).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ikaros antibody [SP108] - BSA and Azide free (ab236227)

Ikaros Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Ikaros antibody

ab105228, at 1/100 dilution, staining Ikaros in formalin-fixed, paraffin-embedded human tonsil by Immunohistochemistry.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab105228).



Flow Cytometry (Intracellular) - Anti-Ikaros antibody [SP108] - BSA and Azide free (ab236227)

Ikaros Flow Cytometry (Intracellular) staining using rabbit Anti-Ikaros antibody

Intracellular flow cytometric analysis of rabbit anti-Ikaros (SP108) antibody ab105228 (1/100) in HeLa cells (green) compared to negative control of rabbit IgG (blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab105228).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.