


Anti-Ikaros antibody [SP108] - BSA and Azide free ab236227

重组 RabMAb

4 图像

概述

产品名称	Anti-Ikaros抗体[SP108] - BSA and Azide free
描述	兔单克隆抗体[SP108] to Ikaros - BSA and Azide free
宿主	Rabbit
经测试应用	适用于: IHC-P, Flow Cyt (Intra) 不适用于: Flow Cyt or IP
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide within Human Ikaros aa 1-100 (N terminal). The exact sequence is proprietary. Database link: Q13422
阳性对照	IHC-P: Human tonsil tissue Flow Cyt (intra): Molt-4 cells
常规说明	ab236227 is the carrier-free version of ab105228 .

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

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.

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.

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 production

For more information [see here](#).

This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	是
纯度	Protein A/G purified
纯化说明	Purified from TCS by protein A/G.
克隆	单克隆
克隆编号	SP108
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab236227 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration. 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.
Flow Cyt (Intra)		Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

应用说明 Is unsuitable for Flow Cyt or IP.

靶标

功能	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 (f1kzfterminal 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).
组织特异性	Abundantly expressed in thymus, spleen and peripheral blood Leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.
疾病相关	Defects in IKZF1 are frequent occurrences (28.6%) in acute lymphoblastic leukemia (ALL). Such

alterations or deletions lead to poor prognosis for ALL.

Chromosomal aberrations involving IKZF1 are a cause of B-cell non-Hodgkin lymphomas (B-cell NHL). Translocation t(3;7)(q27;p12), with BCL6.

序列相似性

Belongs to the Ikaros C2H2-type zinc-finger protein family.

Contains 6 C2H2-type zinc fingers.

结构域

The N-terminal zinc-fingers 2 and 3 are required for DNA binding as well as for targeting IKZF1 to pericentromeric heterochromatin.

The C-terminal zinc-finger domain is required for dimerization.

翻译后修饰

Phosphorylation controls cell-cycle progression from late G(1) stage to S stage.

Hyperphosphorylated during G2/M phase. Dephosphorylated state during late G(1) phase.

Phosphorylation on Thr-140 is required for DNA and pericentromeric location during mitosis. CK2 is the main kinase, in vitro. GSK3 and CDK may also contribute to phosphorylation of the C-terminal serine and threonine residues. Phosphorylation on these C-terminal residues reduces the DNA-binding ability. Phosphorylation/dephosphorylation events on Ser-13 and Ser-295 regulate TDT expression during thymocyte differentiation. Dephosphorylation by protein phosphatase 1 regulates stability and pericentromeric heterochromatin location. Phosphorylated in both lymphoid and non-lymphoid tissues (By similarity). Phosphorylation at Ser-361 and Ser-364 downstream of SYK induces nuclear translocation.

Sumoylated. Simultaneous sumoylation on the 2 sites results in a loss of both HDAC-dependent and HDAC-independent repression. Has no effect on pericentromeric heterochromatin location.

Desumoylated by SENP1.

Polyubiquitinated.

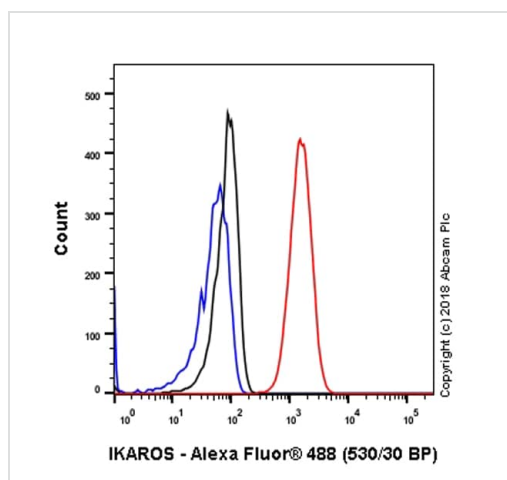
细胞定位

Cytoplasm; Nucleus. In resting lymphocytes, distributed diffusely throughout the nucleus. Localizes to pericentromeric heterochromatin in proliferating cells. This localization requires DNA binding which is regulated by phosphorylation / dephosphorylation events and Nucleus. In resting lymphocytes, distributed diffusely throughout the nucleus. Localizes to pericentromeric heterochromatin in proliferating cells. This localization requires DNA binding which is regulated by phosphorylation / dephosphorylation events (By similarity).

形式

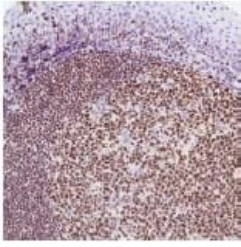
There are 7 isoforms produced by alternative splicing.

图片



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. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (black). Unlabeled 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](#)).

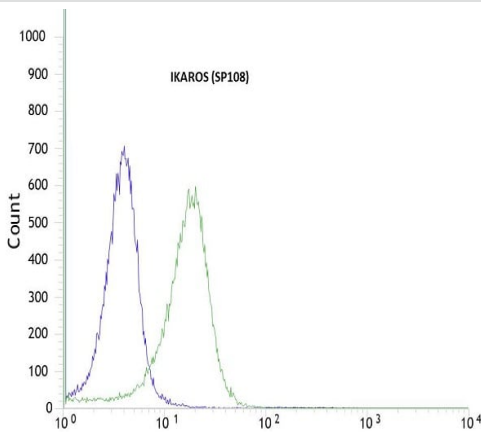
Flow Cytometry (Intracellular) - Anti-Ikaros antibody
[SP108] - BSA and Azide free (ab236227)



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

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**).



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**).

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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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