Anti-Ikaros antibody ab168757

Overview

Product name: Anti-Ikaros antibody
Description: Mouse polyclonal to Ikaros
Host species: Mouse
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Human
Predicted to work with: Mouse, Rat, Pig, Chimpanzee, Cynomolgus monkey, Rhesus monkey, Gorilla, Orangutan
Immunogen: Full length protein, corresponding to amino acids 1-477 of Human Ikaros Isoform Ik7 (AAH18349.1, UniProt ID: Q13422-7).
Positive control: Recombinant Human Ikaros protein (ab132325) can be used as a positive control in WB. Lysate from 293T cells transfected with Ikaros.

Properties

Form: Liquid
Storage buffer: pH: 7.20
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab168757 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function

Tissue specificity
Abundantly expressed in thymus, spleen and peripheral blood leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.

Involvement in disease
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.

Sequence similarities
Belongs to the Ikaros C2H2-type zinc-finger protein family. Contains 6 C2H2-type zinc fingers.

Domain
The N-terminal zinc-fingers 2 and 3 are required for DNA binding as well as for targeting IKFZ1 to pericentromeric heterochromatin. The C-terminal zinc-finger domain is required for dimerization.

Post-translational modifications
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.

Cellular localization
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).
There are 7 isoforms produced by alternative splicing.

**Images**

**All lanes:** Anti-Ikaros antibody (ab168757) at 1 µg/ml

**Lane 1:** Ikaros-transfected 293T cell line lysate

**Lane 2:** Non-transfected 293T cell lysate

Lysates/proteins at 15 µl per lane.

Developed using the ECL technique.

**Predicted band size:** 53 kDa

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