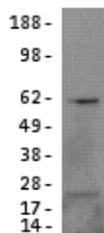


Anti-Mouse Ikaros Purified

Catalog Number: 14-5780

Also known as: IZKF1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Immunoblotting of reduced cell lysate prepared from mouse splenocytes with 5 ug/mL of Anti-Mouse Ikaros antibody. Bands were visualized using Anti-Mouse IgG HRP.

Product Information

REF

Contents: Anti-Mouse Ikaros Purified

Catalog Number: 14-5780

Clone: 2A9-mlkaros

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium

azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to vial

Use By: Refer to vial

Description

This 2A9-mlkaros monoclonal antibody reacts with mouse Ikaros, the 70-kDa founding member of the Ikaros family of C2H2-type zinc finger transcription factors. Ikaros is expressed in hematopoietic progenitor cells, thymocytes, mature T and B cells, monocytes, macrophages, and natural killer cells. This protein has also been shown to be expressed in non-immune cells such as neurons. Studies indicate that Ikaros can interact with other family members, namely Aiolos and Eos. Ikaros is involved in thymocyte development, B cell differentiation, cell cycle control, chromatin remodeling, and tumor suppression. Moreover, Ikaros has been implicated in leukemia and lymphoma. Ikaros has been demonstrated to regulate expression of *Tdt*, *CD8a*, and Notch target genes.

At least eight Ikaros isoforms exist due to alternative splicing. The 2A9-mlkaros antibody has been reported to recognize Ikaros isoform VI (Ik-6), which is the longest and most predominant.

Applications Reported

This 2A9-mlkaros antibody has been reported for use in western blotting.

Applications Tested

This 2A9-mlkaros antibody has been tested by western blot of reduced mouse splenocytes. This can be used at less than or equal to 5 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

John LB, Ward AC. The Ikaros gene family: Transcriptional regulators of hematopoiesis and immunity. *Mol Immunol.* 2011 May;48(9-10):1272-8.

Jeannot R, Mastio J, Macias-Garcia A, Oravecz A, Ashworth T, Geimer Le Lay AS, Jost B, Le Gras S, Ghysdael J, Gridley T, Honjo T, Radtke F, Aster JC, Chan S, Kastner P. Oncogenic activation of the Notch1 gene by deletion of its promoter in Ikaros-deficient T-ALL. *Blood.* 2010 Dec 16;116(25):5443-54.

Cobb BS, Morales-Alcelay S, Kleiger G, Brown KE, Fisher AG, Smale ST. Targeting of Ikaros to pericentromeric heterochromatin by direct DNA binding. *Genes Dev.* 2000 Sep 1;14(17):2146-60. (2A9, ICC)

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Hahm K, Cobb BS, McCarty AS, Brown KE, Klug CA, Lee R, Akashi K, Weissman IL, Fisher AG, Smale ST. Helios, a T cell-restricted Ikaros family member that quantitatively associates with Ikaros at centromeric heterochromatin. *Genes Dev.* 1998 Mar 15;12(6):782-96. (2A9, ICC, IP, WB)

Georgopoulos K, Moore DD, Derfler B. Ikaros, an early lymphoid-specific transcription factor and a putative mediator for T cell commitment. *Science.* 1992 Oct 30;258(5083):808-12.

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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