

Aiolos (h): 293T Lysate: sc-115233

BACKGROUND

Ikaros family members, including Ikaros and Helios, are nuclear factors that colocalize with DNA replication machinery components in higher-order chromatin structures and respond to signaling events, such as T-cell activation. Helios and Ikaros bind to similar DNA sequences and they function as hematopoietic-specific transcription factors. Members of the Ikaros family contain zinc-finger domains that are involved in DNA-binding and in the formation of homodimers and heterodimers between Ikaros family members. Aiolos, also known as zinc finger protein Ikaros 3 or ZNFN1A3, is a 509 amino acid nuclear protein. Aiolos plays an important role in lymphocyte differentiation regulation and, via this role, mutated Aiolos is implicated in leukemogenesis. Expressed in most tissues, Aiolos is predominantly found in spleen, thymus and peripheral blood leukocytes. Aiolos contains six C₂H₂-type zinc fingers, a motif commonly involved in nucleotide binding. Aiolos interacts with Ikaros family members, including Eos and Pegasus.

REFERENCES

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- Liippo, J., et al. 2001. Both normal and leukemic B lymphocytes express multiple isoforms of the human Aiolos gene. *Eur. J. Immunol.* 31: 3469-3474.
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CHROMOSOMAL LOCATION

Genetic locus: IKZF3 (human) mapping to 17q12.

PRODUCT

Aiolos (h): 293T Lysate represents a lysate of human Aiolos transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Aiolos (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Aiolos antibodies. Recommended use: 10-20 µl per lane.

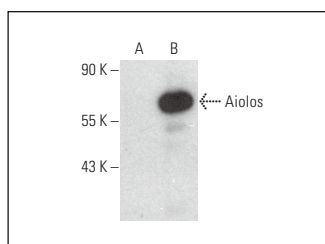
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Aiolos (H-8): sc-515913 is recommended as a positive control antibody for Western Blot analysis of enhanced human Aiolos expression in Aiolos transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

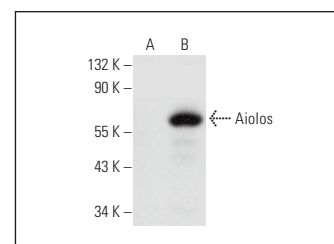
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Aiolos (H-8): sc-515913. Western blot analysis of Aiolos expression in non-transfected: sc-117752 (A) and human Aiolos transfected: sc-115233 (B) 293T whole cell lysates.



Aiolos (G-5): sc-515945. Western blot analysis of Aiolos expression in non-transfected: sc-117752 (A) and human Aiolos transfected: sc-115233 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.