AHCYL1 (m): 293T Lysate: sc-118278



The Power to Question

BACKGROUND

AHCYL1 (S-adenosylhomocysteine hydrolase-like 1), also known as DCAL, IRBIT or PR00233, and AHCYL2 (S-adenosylhomocysteine hydrolase-like 2) are endoplasmic reticulum (ER) proteins involved in amino acid biosynthesis. Expressed in dentritic blood cells (DCs), AHCYL1 and AHCYL2 function to catalyze the $\rm H_2O$ -dependent conversion of S-adenosyl-L-homocysteine to L-homocysteine and adenosine, a reaction that uses NAD as a cofactor. Additionally, AHCYL1 contains a PDZ-binding domain and a PEST region through which it can interact with IP3R-I (inositol 1,4,5-trisphosphate (IP3) receptor-I), a protein involved in various signaling pathways. This interaction lowers the affinity of IP3R-1 for its substrate, IP3, thereby decreasing the rate of IP3-IP3R-I binding.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ahcyl1 (mouse) mapping to 3 F2.3.

PRODUCT

AHCYL1 (m): 293T Lysate represents a lysate of mouse AHCYL1 transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

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.

APPLICATIONS

AHCYL1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive AHCYL1 antibodies. Recommended use: 10-20 µl per lane.

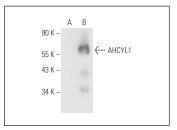
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

AHCYL1 (H-1): sc-514560 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse AHCYL1 expression in AHCYL1 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



AHCYL1 (H-1): sc-514560. Western blot analysis of AHCYL1 expression in non-transfected: sc-117752 (A) and mouse AHCYL1 transfected: sc-118278 (B) 293T whole cell I vsates.

RESEARCH USE

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