SANTA CRUZ BIOTECHNOLOGY, INC.

AHCYL1 (h): 293 Lysate: sc-111084

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

AHCYL1 (S-adenosylhomocysteine hydrolase-like 1), also known as DCAL, IRBIT or PRO0233, is an endoplasmic reticulum (ER) protein that is involved in amino acid biosynthesis. Expressed in dentritic blood cells (DCs), AHCYL1 functions to catalyze the 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-I for its substrate, IP3, thereby decreasing the rate of IP3–IP3R-I binding. AHCYL1 shares 100% homology with its mouse counterpart, indicating a highly conserved function between species. Two isoforms of AHCYL1 are expressed due to alternative splicing events.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: AHCYL1 (human) mapping to 1p13.3.

PRODUCT

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

APPLICATIONS

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

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-tranfected 293 cells.

RESEARCH USE

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