



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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# SAHH (m2): 293T Lysate: sc-127505

## BACKGROUND

SAHH (S-adenosylhomocysteine hydrolase), also known as AHCY, is a 432 amino acid cytoplasmic protein that localizes to the melanosome, a melanin-containing organelle. An essential component of amino acid biosynthesis, SAHH catalyzes the reversible hydrolysis of S-adenosylhomocysteine (SAH) to produce adenosine and L-homocysteine. Through its catalytic activity, SAHH regulates the intracellular levels of SAH and may play a key role in controlling methyltransferase reactions. SAHH exists as a homotetramer that can bind one NAD per subunit and is involved in the activated methyl cycle (a reaction in which the methyl group of methionine is activated by the formation of S-adenosylmethionine). Defects in the gene encoding SAHH result in elevated levels of methionine which cause hypermethioninemia, a disease characterized by sluggishness, muscle weakness and liver problems.

## REFERENCES

1. Elrod, P., et al. 2002. Contributions of active site residues to the partial and overall catalytic activities of human S-adenosylhomocysteine hydrolase. *Biochemistry* 41: 8134-8142.
2. Yang, X., et al. 2003. Catalytic strategy of S-adenosyl-L-homocysteine hydrolase: transition-state stabilization and the avoidance of abortive reactions. *Biochemistry* 42: 1900-1909.
3. Kloor, D. and Osswald, H. 2004. S-adenosylhomocysteine hydrolase as a target for intracellular adenosine action. *Trends Pharmacol. Sci.* 25: 294-297.
4. Shu, S., et al. 2006. S-adenosylhomocysteine hydrolase is localized at the front of chemotaxing cells, suggesting a role for transmethylation during migration. *Proc. Natl. Acad. Sci. USA* 103: 19788-19793.
5. Hermes, M., et al. 2007. Role of S-adenosylhomocysteine hydrolase in adenosine-induced apoptosis in HepG2 cells. *Exp. Cell Res.* 313: 264-283.
6. Li, Q.S., et al. 2007. Comparative kinetics of cofactor association and dissociation for the human and trypanosomal S-adenosylhomocysteine hydrolases. 1. Basic features of the association and dissociation processes. *Biochemistry* 46: 5798-5809.

## CHROMOSOMAL LOCATION

Genetic locus: *Ahcy* (mouse) mapping to 2 H1.

## PRODUCT

SAHH (m2): 293T Lysate represents a lysate of mouse SAHH transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

SAHH (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SAHH antibodies. Recommended use: 10-20 µl per lane.

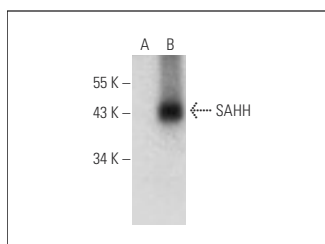
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SAHH (A-6): sc-393129 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SAHH expression in SAHH 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



SAHH (A-6): sc-393129. Western blot analysis of SAHH expression in non-transfected: sc-117752 (A) and mouse SAHH transfected: sc-127505 (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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.