SAHH (A-6): sc-393129

BACKGROUND

SAHH (S-adenosylhomocysteine hydrolase), also known as AHHC, 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 characterized by sluggishness, muscle weakness and liver problems.

REFERENCES

7. CHROMOSOMAL LOCATION

Genetic locus: AHCY (human) mapping to 20q11.22; Ahcy (mouse) mapping to 2 H1.

SOURCE

SAHH (A-6) is a mouse monoclonal antibody raised against amino acids 199-273 mapping within an internal region of SAHH of human origin.

PRODUCT

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SAHH (A-6) is recommended for detection of SAHH of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SAHH (A-6) is also recommended for detection of SAHH in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for SAHH siRNA (h): sc-62972, SAHH siRNA (m): sc-62973, SAHH shRNA Plasmid (h): sc-62972-SH, SAHH shRNA Plasmid (m): sc-62973-SH, SAHH shRNA (h) Lentiviral Particles: sc-62972-V and SAHH shRNA (m) Lentiviral Particles: sc-62973-V.

Molecular Weight of SAHH: 48 kDa.

Positive Controls: SAHH (h): 293T Lysate: sc-159779, A549 cell lysate: sc-2413 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000). Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-16214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG HRP: sc-516102 or m-IgG BP-PE: sc-516140 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-358850.

DATA

SAHH (A-6): sc-393129. Western blot analysis of SAHH expression in HeLa [A], HL-60 [B], F9 [C] and ES2 [D] whole cell lysates and rat colon [E] and rat testis [F] tissue extracts.

SAHH (A-6): sc-393129. Western blot analysis of SAHH expression in non-transfected 293T: sc-117752 [A], human SAHH transfected 293T: sc-150779 [B], H1L 9.7 [C], HeLa [D] and A549 [E] whole cell lysates.

STORAGE

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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