

S adenosylhomocysteine hydrolase (ACHY) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2733b

Product Information

Application	WB, IHC-P, E
Primary Accession	P23526
Other Accession	Q4R596
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14982
Calculated MW	47716
Antigen Region	407-432

Additional Information

Gene ID	191
Other Names	Adenosylhomocysteinase, AdoHcyase, S-adenosyl-L-homocysteine hydrolase, AHCY, SAHH
Target/Specificity	This S adenosylhomocysteine hydrolase (ACHY) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 407-432 amino acids from the C-terminal region of human S adenosylhomocysteine hydrolase (ACHY).
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	S adenosylhomocysteine hydrolase (ACHY) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AHCY
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Synonyms	SAHH
Function	Catalyzes the hydrolysis of S-adenosyl-L-homocysteine to form adenosine and homocysteine (PubMed: 10933798). Binds copper ions (By similarity).
Cellular Location	Cytoplasm. Melanosome. Nucleus. Endoplasmic reticulum. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

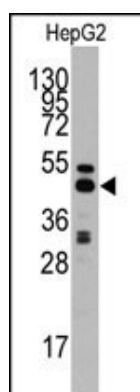
Background

S-adenosylhomocysteine hydrolase (AHCY) catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). Thus, it regulates the intracellular S-adenosylhomocysteine (SAH) concentration thought to be important for transmethylation reactions. Deficiency in this protein is one of the different causes of hypermethioninemia. S-adenosylhomocysteine hydrolase belongs to the adenosylhomocysteinase family.

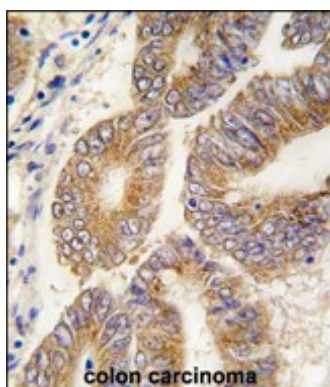
References

Yideng,J.,DNA Cell Biol. 26 (8), 603-611 (2007)
 Arredondo-Vega,F.X.,Ann. Hum. Genet. 53 (PT 2), 157-167 (1989)
 Li,Q.S.,Biochemistry 47 (17), 4983-4991 (2008)

Images



Western blot analysis of anti-AHCY Antibody (C-term)(Cat.#AP2733b) in HepG2 cell line lysates (35ug/lane). AHCY(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with AHCY antibody (C-term) (Cat.#AP2733b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.