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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, Mouse, Rat, Bovine, Canine, Rabbit, Chicken
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

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

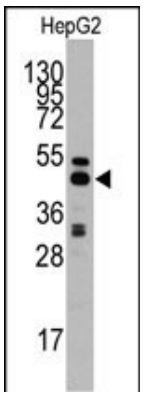
Background

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.

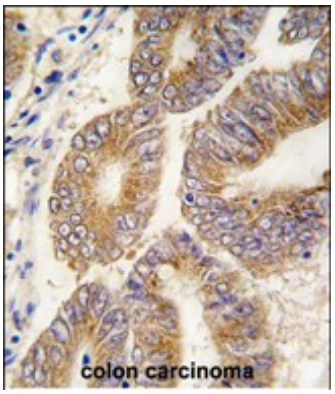
References

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'.