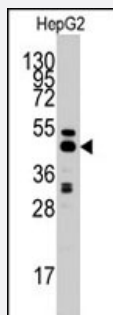


AHCY polyclonal antibody

Catalog # PAB2578

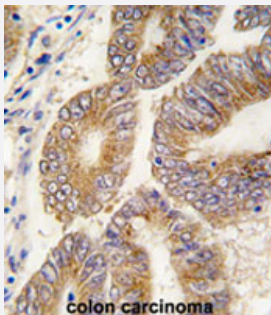
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of AHCY polyclonal antibody (Cat # PAB2578) in HepG2 cell line lysates (35 ug/lane). AHCY (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human colon carcinoma reacted with AHCY polyclonal antibody (Cat # PAB2578), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AHCY.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human AHCY.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of AHCY polyclonal antibody (Cat # PAB2578) in HepG2 cell line lysates (35 ug/lane). AHCY (arrow) was detected using the purified polyclonal antibody.

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Gene Info — AHCY

Entrez GeneID	191
Protein Accession#	NP_000678;P23526
Gene Name	AHCY
Gene Alias	SAHH
Gene Description	S-adenosylhomocysteine hydrolase
Omim ID	180960
Gene Ontology	Hyperlink
Gene Summary	S-adenosylhomocysteine hydrolase belongs to the adenosylhomocysteinase family. It 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000030684|adenosylhomocysteinase

Publication Reference

- [Comparative kinetics of cofactor association and dissociation for the human and trypanosomal S-adenosylhomocysteine hydrolases. 2. The role of helix 18 stability.](#)

Li QS, Cai S, Fang J, Borchardt RT, Kuczera K, Middaugh CR, Schowen RL.

Biochemistry 2008 Apr; 47(17):4983.

- [Homocysteine-mediated expression of SAHH, DNMTs, MBD2, and DNA hypomethylation potential pathogenic mechanism in VSMCs.](#)

Yideng J, Jianzhong Z, Ying H, Juan S, Jing Z, Shenglan W, Xiaoqun H, Shuren W.

DNA and Cell Biology 2007 Aug; 26(8):603.

Application: WB-Ce, Human, Human vascular smooth muscle cells

- [Isozyme and DNA analysis of human S-adenosyl-L-homocysteine hydrolase \(AHCY\).](#)

Arredondo-Vega FX, Charlton JA, Edwards YH, Hopkinson DA, Whitehouse DB.

Annals of Human Genetics 1989 May; 53(2):157.

Pathway

- [Cysteine and methionine metabolism](#)
- [Metabolic pathways](#)
- [Selenoamino acid metabolism](#)

Disease

- [Aortic Aneurysm](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)

- [Colorectal Neoplasms](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fatigue](#)
- [Genetic Predisposition to Disease](#)
- [Hyperhomocysteinemia](#)
- [Microsatellite Instability](#)
- [Sleep Disorders](#)
- [Sleep Initiation and Maintenance Disorders](#)
- [Spinal Dysraphism](#)
- [Stroke](#)
- [Tooth Abnormalities](#)
- [Venous Thrombosis](#)