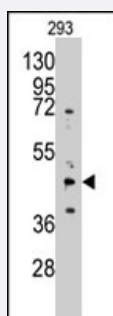


AHCY polyclonal antibody

Catalog # PAB2577

Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of AHCY polyclonal antibody (Cat # PAB2577) in 293 cell line lysates (35 ug/lane). AHCY (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AHCY.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-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 # PAB2577) in 293 cell line lysates (35 ug/lane).AHCY (arrow) was detected using the purified polyclonal antibody.

- Immunohistochemistry

Gene Info — AHCY

Entrez GeneID	191
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Protein Accession#	NP_000678:P23526
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Gene Name	AHCY
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Gene Alias	SAHH
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Gene Description	S-adenosylhomocysteine hydrolase
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Omim ID	180960
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Gene Ontology	Hyperlink
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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]
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Other Designations	OTTHUMP00000030684 adenosylhomocysteinase
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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, Jinge 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](#)