

**AHCY Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11201a****Specification**

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**AHCY Antibody (N-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P23526</a>
Other Accession	<a href="#">Q710C4</a> , <a href="#">Q4R596</a> , <a href="#">Q3MHL4</a> , <a href="#">NP_000678</a>
Reactivity	Mouse
Predicted	Bovine, Monkey, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47716
Antigen Region	79-110

**AHCY Antibody (N-term) - Additional Information****Gene ID** 191**Other Names**

Adenosylhomocysteinase, AdoHcyase, S-adenosyl-L-homocysteine hydrolase, AHCY, SAHH

**Target/Specificity**

This AHCY antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-110 amino acids from the N-terminal region of human AHCY.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**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**

AHCY Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**AHCY Antibody (N-term) - 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).

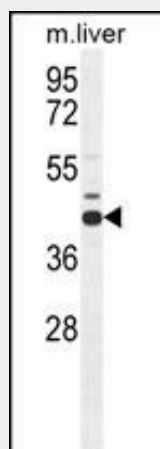
**Cellular Location**

Cytoplasm. Melanosome. Nucleus. Endoplasmic reticulum. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

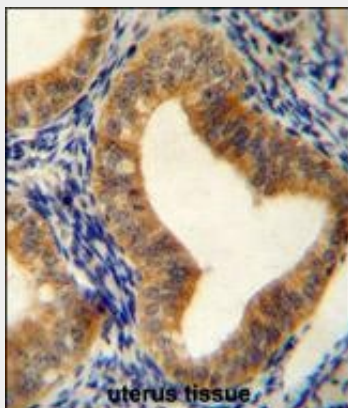
**AHCY Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

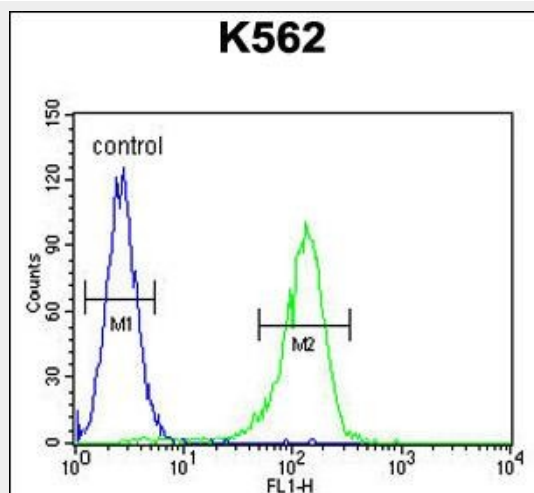
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**AHCY Antibody (N-term) - Images**

AHCY Antibody (N-term) (Cat. #AP11201a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the AHCY antibody detected the AHCY protein (arrow).



AHCY Antibody (N-term) (Cat. #AP11201a) immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of AHCY Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



AHCY Antibody (N-term) (Cat. #AP11201a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **AHCY Antibody (N-term) - Background**

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.

#### **AHCY Antibody (N-term) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Gass, N., et al. J Affect Disord 126 (1-2), 134-139 (2010) :  
Giusti, B., et al. Thromb. Haemost. 104(2):231-242(2010)  
Levine, A.J., et al. Cancer Epidemiol. Biomarkers Prev. 19(7):1812-1821(2010)  
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :