

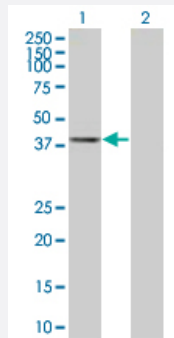
MaxPab®

AHCY MaxPab mouse polyclonal antibody (B01)

Catalog # H00000191-B01

Size 50 uL

Applications



Western Blot (Transfected lysate)

Western Blot analysis of AHCY expression in transfected 293T cell line ([H00000191-T01](#)) by AHCY MaxPab polyclonal antibody.

Lane 1: AHCY transfected lysate(47.52 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human AHCY protein.
Immunogen	AHCY (NP_000678.1, 1 a.a. ~ 432 a.a) full-length human protein.
Sequence	MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYSASKPLKGARIAGCLHMTVETAVLIE TLVTLGAEVQWSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDD GGDLTNLIHTKYPQLLPGIRGISEETTTGVHNLKMMANGILKVPAINVNSVTKSKFDNLYGCRESLI DGIKRATDVMIAQKVAVVAGYGDVGKCAQALRGFGARVIITEIDPINALQAAMEGYEVTTMDEAC QEGNIFVTTTGCIDILGRHFEQMKDDAIVCNIGHFDVEIDVKWLNENAVEKVNIKPQVDRYRLKNGR RIILLAEGRVLNLGCAMGHPFSVMSNSFTNQVMAQIELWTHPDKYPVGVHFLPKKLDEAVAEHL GKLVNKLTKLTEKQAQYLGMSCDGPFKPDHYRY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Note

For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

Applications

- Western Blot (Transfected lysate)

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — AHCY

Entrez GeneID [191](#)

GeneBank Accession# [NM_000687.1](#)

Protein Accession# [NP_000678.1](#)

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

- [Derangement of hepatic polyamine, folate, and methionine cycle metabolism in cystathionine beta-synthase-deficient homocystinuria in the presence and absence of treatment: Possible implications for pathogenesis.](#)

Kenneth N Maclean, Hua Jiang, Whitney N Phinney, Bailey M Mclagan, James R Roede, Sally P Stabler.

Molecular Genetics and Metabolism 2021 Feb; 132(2):128.

Application: WB-Ti, Mouse, Mouse liver

- [Sex-specific dysregulation of cysteine oxidation and the methionine and folate cycles in female cystathionine gamma-lyase null mice: a serendipitous model of the methylfolate trap.](#)

Jiang H, Hurt KJ, Breen K, Stabler SP, Allen RH, Orlicky DJ, Maclean KN.

Biology Open 2015 Aug; 4(9):1154.

Application: WB, Mouse, Liver

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](#)