

Product Datasheet

Cystathionase Antibody (4E1-1B7) - Azide and BSA Free H00001491-M01-100ug

Unit Size: 100 ug

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00001491-M01-100ug

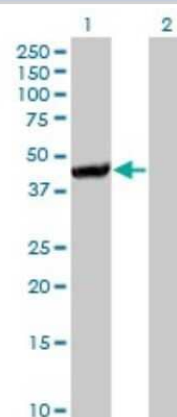
Cystathionase Antibody (4E1-1B7) - Azide and BSA Free

Product Information	
Unit Size	100 ug
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4E1-1B7
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	1491
Gene Symbol	CTH
Species	Human, Mouse, Rat, Porcine, Guinea Pig
Reactivity Notes	Rat reported in scientific literature (PMID: 21571312). Mouse reported in scientific literature (PMID: 24951966)
Specificity/Sensitivity	CTH - cystathionase (cystathionine gamma-lyase)
Immunogen	CTH (AAH15807, 1 a.a. ~ 405 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAP GQHSGFEYSRSGNPTRNCLEKAVAALDGAKEYCLAFASGLAATVTITHLLKAGD QIICMDDVYGGTNRVFRQVASEFGLKISFVDCSKIKLLEAAITPETKLWVIETPTN PTQKVIDIEGCAHIVHKHGDIIILVVDNTFMSPYFQRPLALGADISMYSATKYMNG RSDVVMGLVSVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKH FKNGMAVAQFLESNPWVEKVIYPGLPSHPQHELVKRQCTGCTGMVTFYIKGTL QHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIRLSV GLEDEEDLLEDLDQALKAAHPPSGSHS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IHC-P and ELISA. IHC and ICC/IF reported in scientific literature (PMID: 23285278).

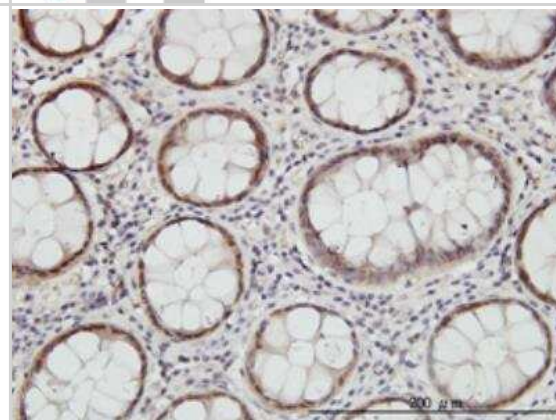


Images

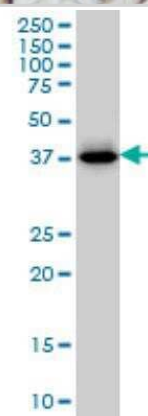
Western Blot: Cystathionase Antibody (4E1-1B7) [H00001491-M01] - Analysis of CTH expression in transfected 293T cell line by CTH monoclonal antibody (M01), clone 4E1-1B7. Lane 1: CTH transfected lysate (Predicted MW: 44.5 KDa). Lane 2: Non-transfected lysate.



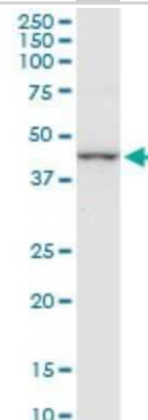
Immunohistochemistry-Paraffin: Cystathionase Antibody (4E1-1B7) [H00001491-M01] - Immunoperoxidase of monoclonal antibody to CTH (Cat # H00001491-M01) on formalin-fixed paraffin-embedded human colon. [antibody concentration 3ug/ml]



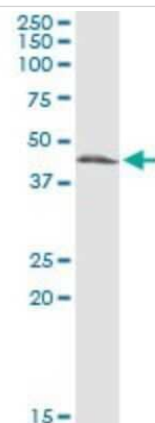
Western Blot: Cystathionase Antibody (4E1-1B7) [H00001491-M01] - CTH expression in K-562 (Cat # L009V1).



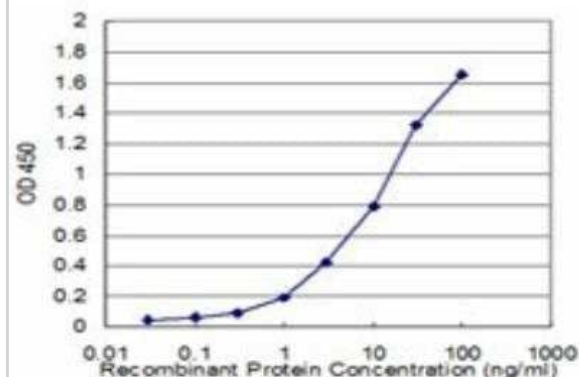
Western Blot: Cystathionase Antibody (4E1-1B7) [H00001491-M01] - CTH monoclonal antibody (M01), clone 4E1-1B7. Analysis of CTH expression in Hela S3 NE.



Western Blot: Cystathionase Antibody (4E1-1B7) [H00001491-M01] - CTH monoclonal antibody (M01), clone 4E1-1B7. Analysis of CTH expression in human liver.



ELISA: Cystathionase Antibody (4E1-1B7) [H00001491-M01] - Detection limit for recombinant GST tagged CTH is approximately 1ng/ml as a capture antibody.



Publications

Jin Z, Zhang Q, Wondimu E et al. H₂S stimulated bioenergetics in chicken erythrocytes and the underlying mechanism Am. J. Physiol. Regul. Integr. Comp. Physiol. 2020-05-20 [PMID: 32432916]

Noriyuki A, Tatsuro M, Masashi M et al. Increased Urinary 3-Mercaptolactate Excretion and Enhanced Passive Systemic Anaphylaxis in Mice Lacking Mercaptopyruvate Sulfurtransferase, a Model of Mercaptolactate-Cysteine Disulfiduria. Int J Mol Sci. 2020-01-27 [PMID: 32012740]

Gambari L, Amore E, Raggio R et al. Hydrogen sulfide-releasing silk fibroin scaffold for bone tissue engineering. Mater Sci Eng C Mater Biol Appl. 2019-04-13 [PMID: 31147018]

Xu J, Gao D, Peng L et al. The gasotransmitter hydrogen sulfide inhibits transepithelial anion secretion of pregnant mouse endometrial epithelium. Nitric Oxide. 2019-06-05 [PMID: 31175932]

R Bok, DD Guerra, RA Lorca, SA Wennersten, PS Harris, AK Rauniyar, SP Stabler, KN MacLean, JR Roede, LD Brown, KJ Hurt Cystathionine γ -lyase promotes estrogen-stimulated uterine artery blood flow via glutathione homeostasis Redox Biology, 2020-12-08;40(0):101827. 2020-12-08 [PMID: 33485059]

Novera W, Lee ZW, Nin DS et al. Cysteine deprivation targets ovarian clear cell carcinoma via oxidative stress and iron-sulfur cluster biogenesis deficit Antioxid. Redox Signal. 2020-04-25 [PMID: 32336105]

Mitidieri E, Tramontano T, Gurgone D et al. Beta 3 adrenergic receptor activation relaxes human corpus cavernosum and penile artery through a hydrogen sulfide/cGMP-dependent mechanism. Pharmacol. Res. 2017-07-29 [PMID: 28760490]

Yuan YQ, Wang YL, Yuan BS et al. Impaired CBS-H₂S signaling axis contributes to MPTP-induced neurodegeneration in a mouse model of Parkinson's disease. Brain Behav Immun 2017-07-31 [PMID: 28774789]

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Wallace JL, Vong L, McKnight W et al. Endogenous and Exogenous Hydrogen Sulfide Promotes Resolution of Colitis in Rats. Gastroenterology. 2009-04-15 [PMID: 19375422]

Yang G, Pei Y, Teng H et al. Specificity protein-1 as a critical regulator of human cystathionine gamma-lyase in smooth muscle cells. J Biol Chem. 2011-06-09 [PMID: 21659522]

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Products Related to H00001491-M01-100ug

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-78832-100ug	Recombinant Human Cystathionase His Protein

Limitations

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