

# Product Datasheet

## Cystathionase Antibody (S51) - Azide and BSA Free H00001491-M03

Unit Size: 0.1 mg

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

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**H00001491-M03**

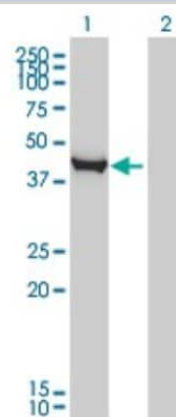
Cystathionase Antibody (S51) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
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	S51
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
Reactivity Notes	Rat reactivity reported in customer review. Rat reactivity reported in scientific literature (PMID: 22801977). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
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 GQHSGFEYSRSGNPTRNCLEKAVAALDGAKYCLAFASGLAATVTITHLLKAGD 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-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	Antibody reactivity against cell lysate, transfected lysate and recombinant protein for WB. It has been use for IHC-P and ELISA.

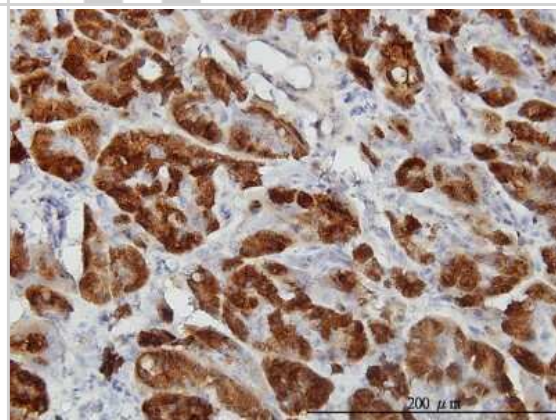


## Images

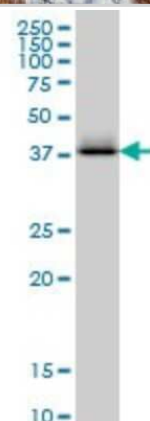
Western Blot: Cystathionase Antibody (S51) [H00001491-M03] - Analysis of CTH expression in transfected 293T cell line by CTH monoclonal antibody (M03), clone S51. Lane 1: CTH transfected lysate (45 KDa). Lane 2: Non-transfected lysate.



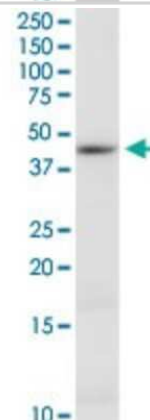
Immunohistochemistry-Paraffin: Cystathionase Antibody (S51) [H00001491-M03] - Analysis of monoclonal antibody to CTH on formalin-fixed paraffin-embedded human pancreas. Antibody concentration 3 ug/ml



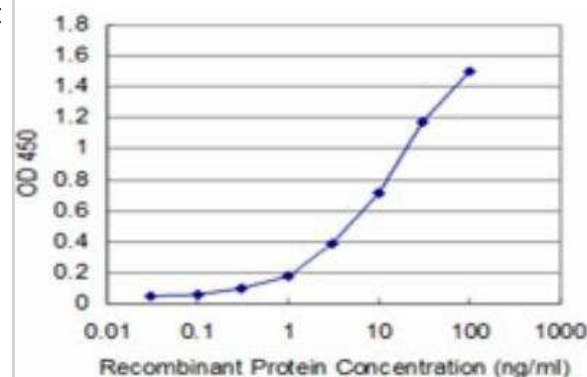
Western Blot: Cystathionase Antibody (S51) [H00001491-M03] - Analysis of CTH expression in K-562 (Cat # L009V1).



Western Blot: Cystathionase Antibody (S51) [H00001491-M03] - Analysis of CTH expression in mouse kidney.



ELISA: Cystathionase Antibody (S51) [H00001491-M03] - Detection limit for recombinant GST tagged CTH is approximately 1ng/ml as a capture antibody.



## Publications

Wang Y, Huang J, Chen W et al. Dysregulation of cystathionine  $\gamma$ -lyase promotes prostate cancer progression and metastasis. EMBO Rep. 2019-08-29 [PMID: 31468690]

Halbert D, Domenyuk V, Spetzler D et al. Aptamers and uses thereof United States Patent Application US 9958448 B2 2018-01-01

Merz T, Wepler M, Nusbaum B et al. Cystathionine- $\gamma$ -lyase expression is associated with mitochondrial respiration during sepsis-induced acute kidney injury in swine with atherosclerosis. Intensive Care Med Exp. 2018-10-20 [PMID: 30343340]

Seale LA, Ha HY, Hashimoto AC et al. Relationship between selenoprotein P and selenocysteine lyase: Insights into selenium metabolism. Free Radic Biol Med 2018-03-20 [PMID: 29567390]

Lee J, Sil Kang E, Kobayashi S et al. The viability of primary hepatocytes is maintained under a low cysteine-glutathione redox state with a marked elevation in ophthalmic acid production. Exp Cell Res 2017-10-26 [PMID: 29079265]

Kobayashi S, Lee J, Takao T, Fujii J et al. Increased ophthalmic acid production is supported by amino acid catabolism under fasting conditions in mice. Biochem Biophys Res Commun 2017-07-27 [PMID: 28757411]

Kurahashi T, Lee J, Nabeshima A et al. Ascorbic acid prevents acetaminophen-induced hepatotoxicity in mice by ameliorating glutathione recovery and autophagy. Arch Biochem Biophys 2016-08-15 [PMID: 27288086]

Ohmura M, Hishiki T, Yamamoto T et al. Impacts of CD44 knockdown in cancer cells on tumor and host metabolic systems revealed by quantitative imaging mass spectrometry. Nitric Oxide. 2014-01-01 [PMID: 25461272]

Siebert N, Cantre D, Eipel C, Vollmar B. H<sub>2</sub>S contributes to the hepatic arterial buffer response and mediates vasorelaxation of the hepatic artery via activation of KATP channels. Am J Physiol Gastrointest Liver Physiol. 2008-10-30 [PMID: 18974309]

Guo H, Gai JW, Wang Y et al. Characterization of Hydrogen Sulfide and Its Synthases, Cystathionine  $\beta$ -Synthase and Cystathionine  $\gamma$ -Lyase, in Human Prostatic Tissue and Cells. Urology. 2012-02-01 [PMID: 22310774]

Streeter E, Hart J, Badoer E. An investigation of the mechanisms of hydrogen sulfide-induced vasorelaxation in rat middle cerebral arteries. Naunyn Schmiedebergs Arch Pharmacol. 2012-07-17 [PMID: 22801977]

Zhang L, Yang G, Untereiner A et al. Hydrogen sulfide impairs glucose utilization and increases gluconeogenesis in hepatocytes. Endocrinology. 2012-11-26 [PMID: 23183179]

More publications at <http://www.novusbio.com/H00001491-M03>



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### **Products Related to H00001491-M03**

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**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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