

# Product Datasheet

## Cystathionase Antibody (2E12-1C10) - Azide and BSA Free H00001491-M02

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 9

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/H00001491-M02](http://www.novusbio.com/H00001491-M02)

Updated 2/21/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/H00001491-M02](http://www.novusbio.com/reviews/destination/H00001491-M02)



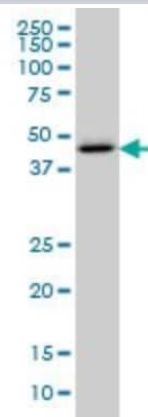
**H00001491-M02****Cystathionase Antibody (2E12-1C10) - Azide and BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2E12-1C10
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	1491
<b>Gene Symbol</b>	CTH
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 22419888). 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.
<b>Specificity/Sensitivity</b>	CTH - cystathionase (cystathionine gamma-lyase)
<b>Immunogen</b>	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 QIICMDDVYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPETKLWVETPTN PTQKVIDIEGCAHIVHKHGDIIILVVDNTFMSPYFQRPLALGADISMYSATKYMNG RSDVVMGLVSVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKH FKNGMAVAQFLESNPWVEKVIYPGLPSHPQHELVKRQCTGCTGMVTFYIKGTL QHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIRLSV GLEDEEDLLEDLDQALKAAHPPSGSHS
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Sandwich ELISA 1:100-1:2000
<b>Application Notes</b>	This antibody reactivity against cell lysate and recombinant protein for WB. It has been used for ELISA.

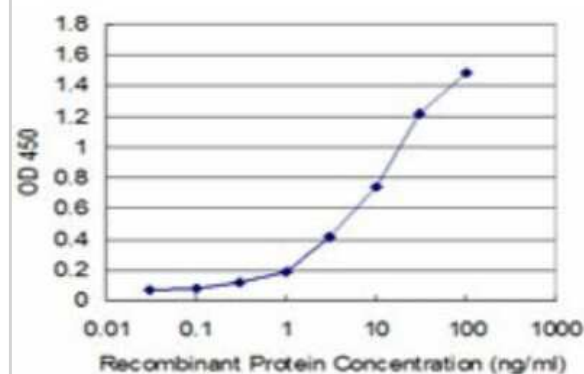


## Images

Western Blot: Cystathionase Antibody (2E12-1C10) [H00001491-M02] - CTH monoclonal antibody (M02), clone 2E12-1C10 Analysis of CTH expression in K-562.



Sandwich ELISA: Cystathionase Antibody (2E12-1C10) [H00001491-M02] - Detection limit for recombinant GST tagged CTH is approximately 1ng/ml as a capture antibody.



## Publications

Gambari L, Lisignoli G, Gabusi E et al. Distinctive Expression Pattern of Cystathionine-B-Synthase and Cystathionine-γ-Lyase Identifies Mesenchymal Stromal Cells Transition to Mineralizing Osteoblasts. *J Cell Physiol* 2017-01-25 [PMID: 28121025]

Grassi F, Malik Tyagi A, Calvert JW et al. Hydrogen Sulfide Is a Novel Regulator of Bone Formation Implicated in the Bone Loss Induced by Estrogen Deficiency. *J Bone Miner Res* 2015-11-28 [PMID: 26614970]

Maclean KN, Sikora J, Kozich V et al. A novel transgenic mouse model of CBS deficient homocystinuria does not incur hepatic steatosis or fibrosis and exhibits a hypercoagulable phenotype that is ameliorated by betaine treatment. *Mol Genet Metab*. 2010-06-23 [PMID: 20638879]

Dickhout JG, Carlisle RE, Jerome DE et al. The integrated stress response modulates cellular redox state via induction of cystathionine γ-lyase: cross-talk between the integrated stress response and thiol metabolism. *J Biol Chem* 2012-01-03 [PMID: 22215680] (WB, Mouse)

Jiang H, Hurt KJ, Breen K et al. 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. *Biol Open* 2015-08-14 [PMID: 26276101] (WB, Mouse)

Panza E, De Cicco P, Armogida C et al. Role of the cystathionine gamma lyase/hydrogen sulfide pathway in human melanoma progression. *Pigment Cell Melanoma Res* 2015-01-01 [PMID: 25205294]

Qipshidze N, Metreveli N, Mishra PK et al. Hydrogen Sulfide Mitigates Cardiac Remodeling During Myocardial Infarction via Improvement of Angiogenesis *Int J Biol Sci* 2012-01-01 [PMID: 22419888] (WB, Mouse)

Kundu S, Munjal C, Tyagi N et al. Folic acid improves inner ear vascularization in hyperhomocysteinemic mice. *Hearing Research*. 2011-12-24 [PMID: 22222235]

d'Emmanuele di Villa Bianca R, Sorrentino R, Maffia P et al. Hydrogen sulfide as a mediator of human corpus cavernosum smooth-muscle relaxation. *PNAS*;106(11):4513-4518. 2009-01-01 [PMID: 19255435]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00001491-M02**

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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/H00001491-M02](http://www.novusbio.com/reviews/submit/H00001491-M02)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

