

# Product Datasheet

## **CBS Antibody** **H00000875-A01**

Unit Size: 0.05 ml

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

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**H00000875-A01**

CBS Antibody

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Unpurified
Buffer	50 % glycerol

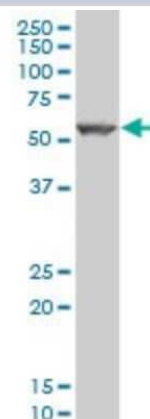
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	875
Gene Symbol	CBS
Species	Human, Mouse, Rat, Monkey, Yeast
Reactivity Notes	Mouse reported in scientific literature (PMID: 22517358).
Specificity/Sensitivity	CBS - cystathionine-beta-synthase
Immunogen	CBS (AAH11381.1, 1 a.a. - 551 a.a.) full-length recombinant protein with GST tag. MPSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRC TWQLGRPASESPHHHTAPAKSPKILPDILKKIGDTPMVRINKIGKKFGLKCELLA KCEFFNAGGSVKDRISLRMIEDAERDGTLPKPGDTIIEPTSGNTGIGLALAAAVRG YRCIIVMPEKMSSEKVDVLRALGAEIVRTPTNARFDSPEHSVGVAVRLKNEIPN SHILDQYRNASNPLAHYDTTAEILQQCDGKLDMLVASVGTGGTITGIARKLKE KCPGCRIGVDPEGSILAEPEELNQTEQTTYEVEGIGYDFIPTVLDRTVVDKWFK SNDEEAFTFARMLIAQEGLLCGGSAGSTVAVAVKAAQELQEGQRCVVILPDSV RNYMTKFLSDRWMLQKGFLKEEDLTEKKPWWWHLRVQELGLSAPLTVLPTIT CGHTIEILREKGFDPAPVVDEAGVILGMVTLGNMLSSLLAGKVQPSDQVGKVIY KQFKQIRLTDTLGRLSHILEMDHFALVVHEQIQYHSTGKSSQRQMVFGVVTAID LLNFVAAQERDQK
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, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin
Application Notes	This antibody reactivity against cell lysate and recombinant protein for WB. It has been used for ELISA. IP usage reported in scientific literature (PMID: 23592311).

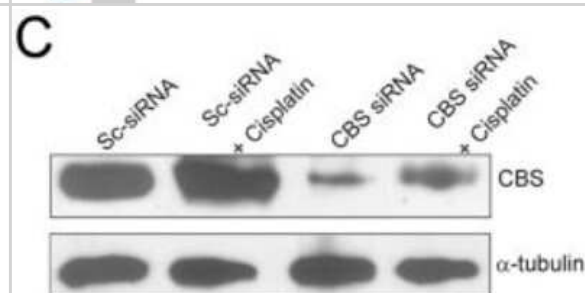


## Images

Western Blot: CBS Antibody [H00000875-A01] - Analysis of CBS expression in K-562 (Cat # L009V1).



Western Blot: CBS Antibody [H00000875-A01] - Effect of CBS knockdown on orthotopic chemoresistant ovarian cancer growth. Immunoblotting of tumor samples for confirmation of CBS knockdown on orthotopic chemoresistant ovarian cancer growth. One animal from each group was selected for immunoblotting analysis. Lane 1 and lane 4 are from different blots. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0079167>), licensed under a CC-BY license.



## Publications

Ismail HM, Krishnamoorthy N, Al-Dewik N et al. In silico and in vivo models for Qatari-Specific classical homocystinuria as basis for development of novel therapies. Hum Mutat. 2018-11-23 [PMID: 30408270]

Partearroyo T, Murillo-Cuesta S, Vallecillo N et al. Betaine-homocysteine S-methyltransferase deficiency causes increased susceptibility to noise-induced hearing loss associated to plasma hyperhomocysteinemia. FASEB J. 2019-02-12 [PMID: 30753104]

Poloni S, Sperb-Ludwig F, Borsatto T et al. CBS mutations are good predictors for B6-responsiveness: A study based on the analysis of 35 Brazilian Classical Homocystinuria patients. Mol Genet Genomic Med 2018-01-20 [PMID: 29352562]

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]

Martinez-Vega R, Partearroyo T, Vallecillo N et al. Long-term omega-3 fatty acid supplementation prevents expression changes in cochlear homocysteine metabolism and ameliorates progressive hearing loss in C57BL/6J mice. J Nutr Biochem 2015-12-01 [PMID: 26321228] (Mouse)

Wu N, Siow YL, O K. Ischemia/reperfusion reduces transcription factor Sp1-mediated cystathionine beta-synthase expression in the kidney. J Biol Chem. 2010-04-14 [PMID: 20392694]

Bhattacharyya S, Saha S, Giri K et al. Cystathionine Beta-Synthase (CBS) Contributes to Advanced Ovarian Cancer Progression and Drug Resistance. PLoS One. 2013-11-13 [PMID: 24236104]

Martinez-Vega R, Garrido F, Partearroyo T et al. Folic acid deficiency induces premature hearing loss through mechanisms involving cochlear oxidative stress and impairment of homocysteine metabolism. FASEB J. 2014-11-10 [PMID: 25384423]

Saha S, Chakraborty PK, Xiong X et al. Cystathionine b-synthase regulates endothelial function via protein S-sulfhydration. FASEB J. 2015-09-24 [PMID: 26405298]

Mayfield JA, Davies MW, Dimster-Denk D et al. Surrogate genetics and metabolic profiling for characterization of human disease alleles. Genetics. 2012-04-01 [PMID: 22267502] (WB)

Gupta S, Wang L, Anderl J et al. Correction of cystathionine beta-synthase deficiency in mice by treatment with proteasome inhibitors. Hum Mutat. 2013-08-01 [PMID: 23592311] (IP)

More publications at <http://www.novusbio.com/H00000875-A01>





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### **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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