.-online.com antibodies

Datasheet for ABIN3042770 anti-CTH antibody (AA 181-398)

2 Images

5 Publications



Overview

Quantity:	100 µg
Target:	СТН
Binding Specificity:	AA 181-398
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CTH antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cystathionine gamma-lyase(CTH) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Cystathionase recombinant protein (Position: D181-H398). Human Cystathionase shares 85.8% amino acid (aa) sequence identity with both mouse and rat Cystathionase.
lsotype:	lgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics: Rabbit IgG polyclonal antibody for Cystathionine gamma-lyase(CTH) detection. Teste	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3042770 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details			
	in Human,Mouse,Rat.		
	Gene Name: cystathionase (cystathionine gamma-lyase)		
	Protein Name: Cystathionine gamma-lyase		
Purification:	Immunogen affinity purified.		
Target Details			
Target:	СТН		
Alternative Name:	CTH (CTH Products)		
Background:	Cystathionine gamma-lyase (or cystathionase) is an enzyme which breaks down cystathionine		
	into cysteine and α -ketobutyrate. The International Radiation Hybrid Mapping Consortium		
	mapped the CTH gene to chromosome 1. The CTH gene had earlier been assigned to		
	chromosome 16 by study of somatic cell hybrids. It is demonstrated that hydrogen sulfide		
	(H2S) is physiologically generated by CTH.		
	Synonyms: CGL_HUMAN antibody CTH antibody cystathionase (cystathionine gamma-lyase)		
	antibody Cystathionine gamma lyase antibody Cystathionine gamma-lyase antibody Cysteine		
	desulfhydrase antibody Gamma cystathionase antibody Gamma-cystathionase		
	antibody Homoserine deaminase antibody Homoserine dehydratase antibody MGC9471		
	antibody		
Gene ID:	10664		
UniProt:	P32929		
Pathways:	ER-Nucleus Signaling, Warburg Effect		
Application Details			
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human		
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be		
	fit for the product based on sequence similarities.		
	Other applications have not been tested. Optimal dilutions should be determined by end users.		
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.		
Restrictions:	For Research Use only		

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3042770 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Handling

Format:	Lyophilized		
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.		
Concentration:	500 µg/mL		
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.		
Handling Advice:	Avoid repeated freezing and thawing.		
Storage:	4 °C/-20 °C		
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.		

Publications

Product cited in: Ostermann, Seeliger, David, Flasche, Maus, Reinboth, Christmann, Neumann, Brand, Seltmann, Bühling, Paton, Roth, Vogl, Viemann, Welte, Maus: "S100A9 is indispensable for survival of pneumococcal pneumonia in mice." in: **PLoS pathogens**, Vol. 19, Issue 7, pp. e1011493, (2023) (PubMed).

> Ostermann, Maus, Stolper, Schütte, Katsarou, Tumpara, Pich, Mueller, Janciauskiene, Welte, Maus: "Alpha-1 antitrypsin deficiency impairs lung antibacterial immunity in mice." in: **JCI insight**, Vol. 6, Issue 3, (2021) (PubMed).

Hu, Wang, Rao, Zhao, Yang, Hu, He, Xia, Liu, Zhen, Di, Xie, Xia, Zhu: "Alterations in the endometrium of rats, rabbits, and Macaca mulatta that received an implantation of copper/lowdensity polyethylene nanocomposite." in: **International journal of nanomedicine**, Vol. 9, pp. 1127-38, (2015) (PubMed).

Zhou, Chen, Jiang, Feng, Han: "Effects of bone marrow-derived mesenchymal stem cells transfected with survivin on pulmonary fibrosis in mice." in: **Experimental and therapeutic medicine**, Vol. 10, Issue 5, pp. 1857-1864, (2015) (PubMed).

Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion

channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) (PubMed).

Images

	1	2
116KD —		
97KD —		
58KD —		
40KD -	-	-
29KD —		
20KD —		
14KD -		
	1	2
116KD -		
97KD —		
58KD —		
40KD —	-	-
29KD —		
2 0KD —		
14KD -		

Western Blotting

Image 1. Anti- Cystathionase Picoband antibody, Western blotting All lanes: Anti Cystathionase at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Predicted bind size: 45KD Observed bind size: 45KD

Western Blotting

Image 2. Anti- Cystathionase Picoband antibody, Western blottingAll lanes: Anti Cystathionase at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ugPredicted bind size: 45KDObserved bind size: 45KD

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3042770 | 09/11/2023 | Copyright antibodies-online. All rights reserved.