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Datasheet for ABIN3043747 anti-CBS antibody (AA 331-551)

3 Images

1 Publication



Overview

Quantity:	100 µg				
Target:	CBS				
Binding Specificity:	AA 331-551				
Reactivity:	Human, Rat				
Host:	Rabbit				
Clonality:	Polyclonal				
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))				
Product Details					
Purpose:	Rabbit IgG polyclonal antibody for Cystathionine beta-synthase(CBS) detection. Tested with				
	WB, IHC-P in Human,Rat.				
Immunogen:	E.coli-derived human CBS recombinant protein (Position: A331-K551). Human CBS shares 83%				
	amino acid (aa) sequence identity with both mouse and rat CBS.				
Isotype:	lgG				
Cross-Reactivity (Details):	No cross reactivity with other proteins.				
Characteristics:	Rabbit IgG polyclonal antibody for Cystathionine beta-synthase(CBS) detection. Tested with				
	WB, IHC-P in Human,Rat.				
	Gene Name: cystathionine-beta-synthase				
	Protein Name: Cystathionine beta-synthase				
Purification:	Immunogen affinity purified.				

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Target Details

Target:	CBS			
Alternative Name:	CBS (CBS Products)			
Background:	Cystathionine- β -synthase, also known as CBS, is an enzyme that in humans is encoded by the			
	CBS gene. It is mapped to 21q22.3 and contains 23 exons, ranging in size from 42 to 299 bp.			
	CBS catalyzes the first step of the transsulfuration pathway, from homocysteine to			
	cystathionine. It uses the cofactor pyridoxal-phosphate (PLP) and can be allosterically regulate			
	by effectors such as the ubiquitous cofactor S-adenosyl-L-methionine (adoMet). This enzyme			
	belongs to the family of lyases, to be specific, the hydro-lyases, which cleave carbon-oxygen			
	bonds. CBS is a multidomain enzyme composed of an N-terminal enzymatic domain and two			
	CBS domains. The CBS gene is the most common locus for mutations associated with			
	homocystinuria.			
	Synonyms: AI047524 antibody AI303044 antibody Beta thionase antibody Beta-thionase			
	antibody Cbs antibody Cbs cystathionine beta-synthase antibody CBS_HUMAN			
	antibody Cystathionine beta synthase antibody Cystathionine beta-synthase antibody EC			
	4.2.1.22 antibody HIP 4 antibody HIP4 antibody Methylcysteine synthase antibody MGC18856			
	antibody MGC18895 antibody MGC37300 antibody OTTHUMP00000109416			
	antibody OTTHUMP00000109418 antibody Serine sulfhydrase antibody			
Gene ID:	875			
UniProt:	P35520			
Application Details				
Application Notes:	WB: Concentration: 0.1-0.5 μ g/mL, Tested Species: Human, Rat, The detection limit for CBS is			
	approximately 0.25 ng/lane under reducing conditions.			
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling			
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of			
	formalin/paraffin sections.			
	Notes: Tested Species: Species with positive results. 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, supported by			
	ABIN921231 in IHC(P).			
Restrictions:	For Research Use only			

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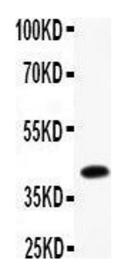
Handling

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

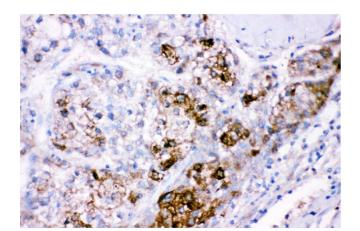
Product cited in: Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) (PubMed).

Images



Western Blotting

Image 1. Anti- CBS antibody, Western blotting All lanes: Anti CBS at 0.5ug/ml WB: Recombinant human CBS Protein 0.5ng Predicted bind size: 42KD Observed bind size: 42KD



130KD -	1	2	3	4	5
100KD -					
70KD -					
55KD -	-	-	-	-	-
35KD-					
25KD-					

Immunohistochemistry (Paraffin-embedded Sections)

Image 2.

Western Blotting

Image 3.

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