

anti-Human, Rat CBS Polyclonal Antibody | anti-CBS antibody

Anti-CBS Antibody

CATALOG # AAA46431	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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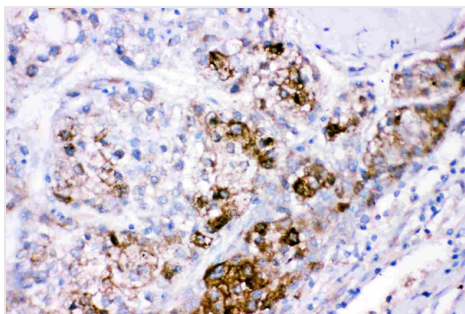
PRODUCT SYNONYMS

CBS; Polyclonal Antibody; Anti-CBS Antibody; Cystathionine beta-synthase; AI047524; AI303044; Beta thionase; Beta-thionase; Cbs; Cbs cystathionine beta-synthase; CBS_HUMAN; Cystathionine beta synthase; EC 4.2.1.22; HIP 4; HIP4; Methylcysteine synthase; MGC18856; MGC18895; MGC37300; OTTHUMP00000109416; OTTHUMP00000109418; Serine sulfhydryase; cystathionine-beta-synthase; anti-CBS antibody

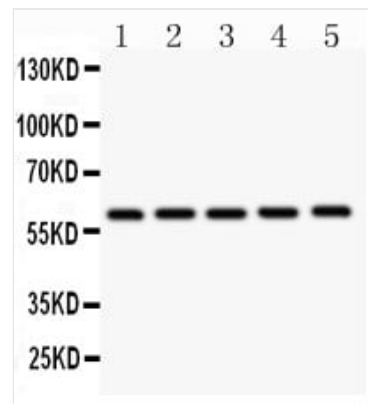
PRODUCT SPECIFICATIONS

Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	551
Applicable Applications for anti-CBS antibody	IHC (Immunohistochemistry), WB (Western Blot)
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.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

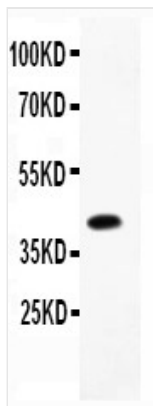
IMAGES


IHC (Immunohistochemistry)

Anti- CBS antibody, IHC(P)IHC(P): Human Liver Cancer Tissue


WB (Western Blot)

Anti- CBS antibody, Western blottingAll lanes: Anti CBS at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: Hela Whole Cell Lysate at 40ugLane 4: PANC Whole Cell Lysate at 40ugLane 5: Hepg2 Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved bind size: 60KD



WB (Western Blot)

Anti- CBS antibody, Western blottingAll lanes: Anti CBS at 0.5ug/mlWB: Recombinant human CBS Protein 0.5ngPredicted bind size: 42KDObserved bind size: 42KD

ADDITIONAL INFORMATION

Related Product Information for anti-CBS antibody	Description: Rabbit IgG polyclonal antibody for Cystathionine beta-synthase(CBS) detection. Tested with WB, IHC-P in Human;Rat. Background: Cystathionine-beta-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 regulated 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.
References	1. Munke, M., Kraus, J., Watkins, P., Tanzi, R., Gusella, J., Millington Ward, A., Watson, M., Francke, U.Homocys 2. tinuria gene on human chromosome 21 mapped with cloned cystathionine beta-synthase probe and in situ hybridization of other chromosome 21 probes. (Abstract)Cytogenet. Cell Genet. 40: 706-707, 1985. 3. Kraus, J. P., Oliveriusova, J., Sokolova, J., Kraus, E., Vlcek, C., de Franchis, R., Maclean, K. N., Bao, L., Bukovska, G., Patterson, D., Paces, V., Ansorge, W., Kozich, V.The human cystathionine beta-synthase (CBS) gene: complete sequence, alternative splicing, and polymorphisms.Genomics 52: 312-324, 1998. 4. Kruger, W. D., Cox, D. R.A yeast system for expression of human cystathionine beta-synthase: structural and functional conservation of the human and yeast genes.Proc. Nat. Acad. Sci. 91: 6614-6618, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557415
NCBI GeneID	875
NCBI Accession #	NP_000062.1
NCBI GenBank Nucleotide #	NM_000071.2
UniProt Accession #	P35520; Q99425; Q9BWC5; B2R993; D3DSK4
Molecular Weight	61,863 Da
NCBI Official Full Name	cystathionine beta-synthase isoform 1
NCBI Official Synonym Full Names	cystathionine-beta-synthase
NCBI Official Symbol	CBS
NCBI Official Synonym Symbols	HIP4
NCBI Protein Information	cystathionine beta-synthase
UniProt Protein Name	Cystathionine beta-synthase

UniProt Gene Name	CBS
UniProt Entry Name	CBS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cbs-antibody-immunohistochemistry-western-blot-elisa/46431>