

Rabbit CBS Polyclonal Antibody | anti-CBS antibody

CBS Antibody

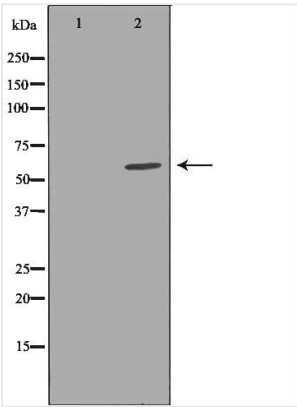
CATALOG # AAA326182	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

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

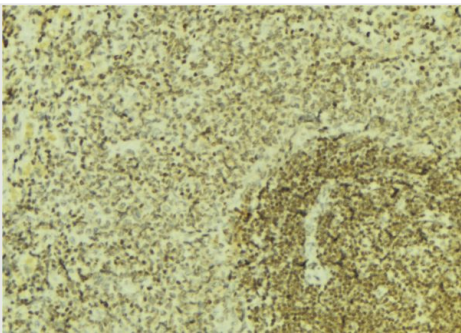
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CBS antibody detects endogenous levels of total CBS
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	551
Applicable Applications for anti-CBS antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CBS
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	In the adult strongly expressed in liver and pancreas, some expression in heart and brain, weak expression in lung and kidney. In the fetus, expressed in brain, liver and kidney.
Predicted Cross Reactivity	Bovine, Sheep, Rabbit, Xenopus
Similarity	Bovine (100%), Sheep (100%), Rabbit (93%), Xenopus (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



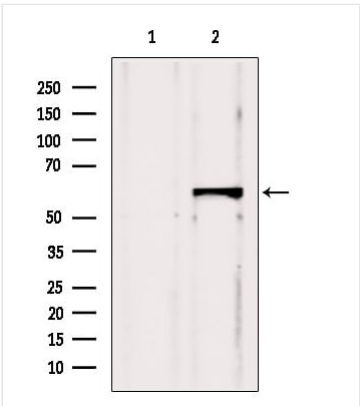
WB (Western Blot)

Western blot analysis of extracts of mouse kidney tissue, using CBS antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326182 at 1/100 staining Mouse pancreas tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from HeLa, using CBS Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CBS antibody	Description:	The CBS gene encodes cystathionine beta-synthase, which catalyzes the first irreversible step of transsulfuration. The CBS enzyme is a homotetramer of 63-kD subunits and requires pyridoxal phosphate and heme for activity(PMID:11230183). CBS protein is localized in most areas of the brain, but predominantly in the cell bodies and neuronal processes of Purkinje cells and Ammon's horn neurons(PMID:12588964). This antibody is specific to CBS.
	Function:	Hydro-lyase catalyzing the first step of the transsulfuration pathway, where the hydroxyl group of L-serine is displaced by L-homocysteine in a beta-replacement reaction to form L-cystathionine, the precursor of L-cysteine. This catabolic route allows the elimination of L-methionine and the toxic metabolite L-homocysteine (PubMed:23981774, PubMed:20506325, PubMed:23974653). Also involved in the production of hydrogen sulfide, a gasotransmitter with signaling and cytoprotective effects on neurons (By similarity).
	Subunit Structure:	Homotetramer.
	Similarity:	Belongs to the cysteine synthase/cystathionine beta-synthase family.

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	Observed: 61 kDa Predicted: 61 kDa
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	CBSL; HIP4
NCBI Protein Information	cystathionine beta-synthase
UniProt Protein Name	Cystathionine beta-synthase
UniProt Gene Name	CBS

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/cbs-antibody-immunohistochemistry-western-blot-elisa/326182>