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KD-Validated Anti-Cystathionine beta-synthase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1226

Product Information

Application	WB, FC, ICC
Primary Accession	P35520
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3800
Calculated MW	60587
Gene Name	CBS
Aliases	CBS; Cystathionine Beta-Synthase; HIP4; Serine Sulfhydrase; Beta-Thionase; EC 4.2.1.22; Cystathionine Beta-Synthase-Like Protein; Cystathionine-Beta-Synthase; Methylcysteine Synthase; CBSL
Immunogen	A synthesized peptide derived from human CBS

Additional Information

Gene ID	875
Other Names	Cystathionine beta-synthase, 4.2.1.22, Beta-thionase, Serine sulfhydrase, CBS

Protein Information

Name	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:20506325, PubMed:23974653, PubMed:23981774). Also involved in the production of hydrogen sulfide, a gasotransmitter with signaling and cytoprotective effects on neurons (By similarity).
Cellular Location	Cytoplasm. Nucleus
Tissue Location	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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.