

KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1153

Product Information

Application	WB, FC, ICC
Primary Accession	Q13057
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3095
Calculated MW	62329
Gene Name	COASY
Aliases	COASY; Coenzyme A Synthase; NBP; Bifunctional Coenzyme A Synthase; CoA Synthase; DPCK; PPAT; POV-2; Bifunctional Phosphopantetheine Adenylyl Transferase/Dephospho CoA Kinase; Phosphopantetheine Adenylyltransferase / Dephosphocoenzyme A Kinase; Nucleotide Binding Protein; NBIA6; PCH12; UKR1
Immunogen	A synthesized peptide derived from COASY

Additional Information

Gene ID	80347
Other Names	Bifunctional coenzyme A synthase, CoA synthase, NBP, POV-2, Phosphopantetheine adenylyltransferase, 2.7.7.3, Dephospho-CoA pyrophosphorylase, Pantetheine-phosphate adenylyltransferase, PPAT, Dephospho-CoA kinase, DPCK, 2.7.1.24, Dephosphocoenzyme A kinase, DPCOAK, COASY (HGNC:29932)

Protein Information

Name	COASY (HGNC:29932)
Function	Bifunctional enzyme that catalyzes the fourth step of the coenzyme A biosynthetic pathway, the adenylation of 4'- phosphopantetheine, and the fifth step, the phosphorylation of dephospho-CoA to CoA.
Cellular Location	Cytoplasm, cytosol. Mitochondrion matrix. Note=The protein is mainly cytosolic and active in the cytosol (PubMed:40925986). Present in the mitochondrial matrix, probably anchored to the inner mitochondrial membrane (PubMed:24360804).
Tissue Location	Expressed in all tissues examined including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and

peripheral blood leukocyte. Lowest expression in peripheral blood leukocytes and highest in kidney and liver. Isoform 2 is expressed mainly in the brain

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