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COASY Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15361

Product Information

Application	WB
Primary Accession	Q13057
Other Accession	NM_001042532, NP_001035997
Reactivity	Human, Mouse, Rat, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62329

Additional Information

Gene ID	80347
Alias Symbol	DPCK, FLJ35179, NBP, PPAT, UKR1, pOV-2
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
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-COASY antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	COASY Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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).

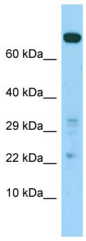
Tissue Location

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

References

Daugherty M.,et al.J. Biol. Chem. 277:21431-21439(2002).
Aghajanian S.,et al.Biochem. J. 365:13-18(2002).
Ota T.,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).

Images



WB Suggested Anti-COASY Antibody Titration: 1.0 µg/ml
Positive Control: A549 Whole Cell

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