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Anti-COASY Antibody

Catalog # AP51683

Product Information

Application	WB
Primary Accession	Q13057
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62329

Additional Information

Gene ID	80347
Other Names	Bifunctional coenzyme A synthase; CoA synthase; NBP; POV-2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human COASY. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

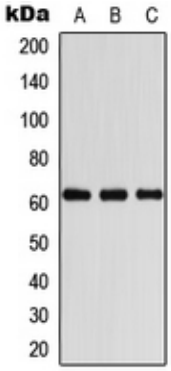
Protein Information

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



Western blot analysis of COASY expression in HeLa (A), A431 (B), Raw264.7 (C) whole cell lysates. (Predicted band size: 62; 65 kD; Observed band size: 62 kD)

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