10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COASY Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP10371c

Specification

COASY Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q13057
Other Accession	NP_001035995.1, NP_001035997.2, NP_079509.5, NP_001035994.1, NP_001035996.1

COASY Antibody (Center) Blocking peptide - Additional Information

Gene ID 80347

Other Names
Bifunctional coenzyme A synthase, CoA synthase, NBP, POV-2, Phosphopantetheine adenylyltransferase, Dephospho-CoA pyrophosphorylase, Pantetheine-phosphate adenylyltransferase, PPAT, Dephospho-CoA kinase, DPCK, Dephosphocoenzyme A kinase, DPCOAK, COASY

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

COASY Antibody (Center) Blocking peptide - Protein Information

Name COASY (HGNC:29932)

Function
Bifunctional enzyme that catalyzes the fourth and fifth sequential steps of CoA biosynthetic pathway. The fourth reaction is catalyzed by the phosphopantetheine adenylyltransferase, coded by the coaD domain; the fifth reaction is catalyzed by the dephospho-CoA kinase, coded by the coaE domain. May act as a point of CoA biosynthesis regulation.

Cellular Location
Cytoplasm. Mitochondrion matrix. Note=The protein is mainly present in the mitochondrial matrix, probably anchored to the inner mitochondrial membrane, but is also present in cell lysate

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

COASY Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

COASY Antibody (Center) Blocking peptide - Images

COASY Antibody (Center) Blocking peptide - Background

Biosynthesis of coenzyme A (CoA) from pantothenic acid(vitamin B5) is an essential universal pathway in prokaryotes andeukaryotes. COASY is a bifunctional enzyme that catalyzes the 2last steps in CoA synthesis. These activities are performed by 2separate enzymes, phosphopantetheine adenylyltransferase (PPAT; EC2.7.7.3) and dephospho-CoA kinase (DPCK; EC 2.7.1.24), inprokaryotes (Daugherty et al., 2002 [PubMed 11923312]).[supplied byOMIM].

COASY Antibody (Center) Blocking peptide - References

Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010)Breus, O., et al. Biochem. Biophys. Res. Commun. 385(4):581-585(2009)Hamaguchi, M., et al. Jpn. J. Clin. Oncol. 38(11):734-742(2008)Nemazanyy, I., et al. Biochem. Biophys. Res. Commun. 341(4):995-1000(2006)Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)