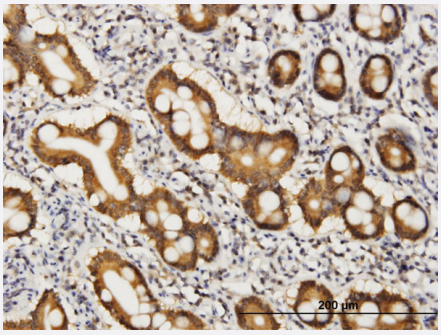
COASY monoclonal antibody (M05), clone 2A12

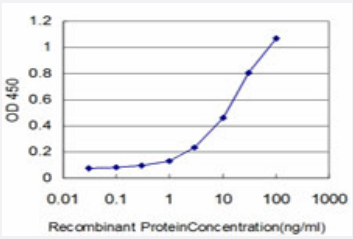
Catalog # H00080347-M05 Size 100 ug

Applications



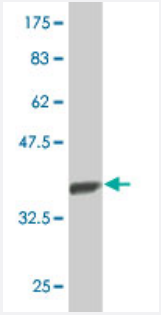
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to COASY on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged COASY is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.18 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant COASY.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Immunogen	COASY (NP_079509, 461 a.a. ~ 564 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AEGKRVCVIDAAVLLEAGWQNLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQL VEQSHVVLSTLWEPHITQRQVEKAWALLQKRIPKTHQALD
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Rat (85)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.18 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunoperoxidase of monoclonal antibody to COASY on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged COASY is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — COASY

Entrez GeneID	80347

Copyright © 2023 Abnova Corporation. All Rights Reserved.

GeneBank Accession#	NM_025233
Protein Accession#	NP_079509
Gene Name	COASY
Gene Alias	DPCK, FLJ35179, NBP, PPAT, UKR1, pOV-2
Gene Description	Coenzyme A synthase
Omim ID	609855
Gene Ontology	Hyperlink
Gene Summary	Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. COASY is a bifunctional enzyme that catalyzes the 2 last steps in CoA synthesis. These activities are performed by 2 separate enzymes, phosphopantetheine adenylyltransferase (PPAT; EC 2.7.7.3) and dephospho-CoA kinase (DPCK; EC 2.7.1.24), in prokaryotes (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM
Other Designations	bifunctional phosphopantetheine adenylyl transferase/dephospho CoA kinase|coenzyme A synthase|nucleotide binding protein|phosphopantetheine adenylyltransferase / dephosphocoenzyme A kinase

Pathway

- Metabolic pathways
- Pantothenate and CoA biosynthesis

Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- Urinary Bladder Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.