

**KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1153****Specification****KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">Q13057</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 62 kDa , observed, 62 kDa KDa
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

**KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody - 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 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=29932" target="\_blank">HGNC:29932</a>)

**KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody - 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

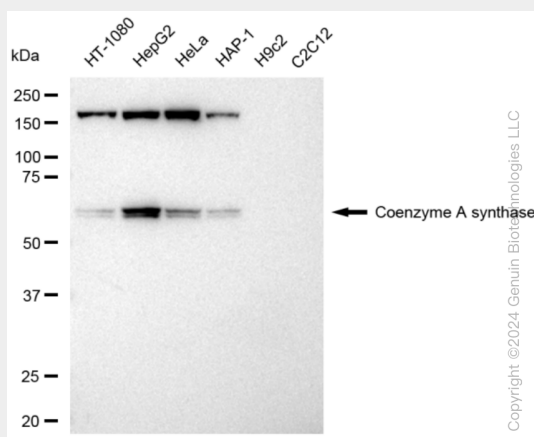
Expressed in all tissues examined including brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood leukocyte. Lowest expression in peripheral blood leukocytes and highest in kidney and liver. Isoform 2 is expressed mainly in the brain

## KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody - Protocols

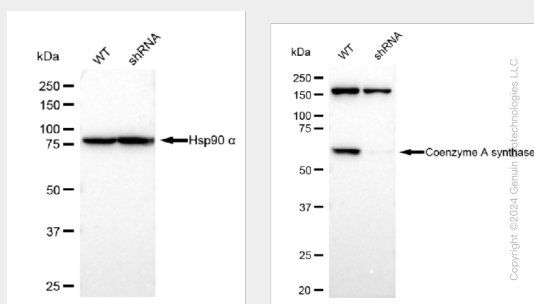
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-Coenzyme A synthase Rabbit Monoclonal Antibody - Images

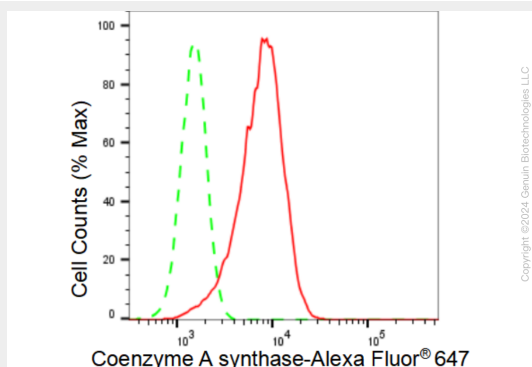


Western blotting analysis using anti-Coenzyme A synthase antibody (Cat#AGI1153). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Coenzyme A synthase antibody (Cat#AGI1153, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

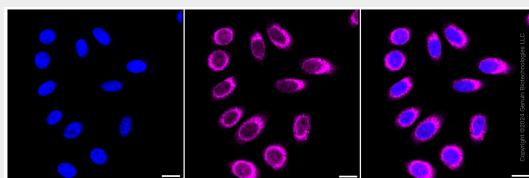


Western blotting analysis using anti-Coenzyme A synthase antibody (Cat#AGI1153). Coenzyme A

synthase expression in wild type (WT) and Coenzyme A synthase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Coenzyme A synthase antibody (Cat#AGI1153, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Coenzyme A synthase expression in HepG2 cells using Coenzyme A synthase antibody (Cat#AGI1153, 1:2,000). Green, isotype control; red, Coenzyme A synthase.



Immunocytochemical staining of HepG2 cells with Coenzyme A synthase antibody (Cat#AGI1153, 1:1,000). Nuclei were stained blue with DAPI; Coenzyme A synthase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.