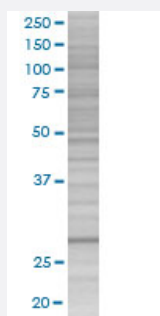


# COASY 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00080347-T01

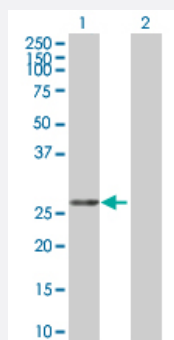
Size 100 uL

## Applications



### SDS-PAGE Gel

COASY transfected lysate.



### Western Blot

Lane 1: COASY transfected lysate ( 29.7 KDa)

Lane 2: Non-transfected lysate.

## Specification

|                               |                        |
|-------------------------------|------------------------|
| Transfected Cell Line         | 293T                   |
| Plasmid                       | pCMV-COASY full-length |
| Host                          | Human                  |
| Theoretical MW (kDa)          | 29.7                   |
| Interspecies Antigen Sequence | Rat (85)               |

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-COASY antibody ([H00080347-B01](#)) by Western Blots.  
SDS-PAGE Gel  
COASY transfected lysate.  
Western Blot  
Lane 1: COASY transfected lysate ( 29.7 KDa)  
Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — COASY

**Entrez GeneID**[80347](#)**GeneBank Accession#**[NM\\_001042531.1](#)**Protein Accession#**[-](#)**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](#)