

A12179

Leader in Biomolecular Solutions for Life Science



## CoA synthase (COASY) Rabbit pAb

Catalog No.: A12179

### Basic Information

**Observed MW**

62kDa

**Calculated MW**

62kDa

**Category**

Polyclonal Antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Human, Mouse, Rat

### Background

Coenzyme A (CoA) functions as a carrier of acetyl and acyl groups in cells and thus plays an important role in numerous synthetic and degradative metabolic pathways in all organisms. In eukaryotes, CoA and its derivatives are also involved in membrane trafficking and signal transduction. This gene encodes the bifunctional protein coenzyme A synthase (CoAsy) which carries out the last two steps in the biosynthesis of CoA from pantothenic acid (vitamin B5). The phosphopantetheine adenyltransferase domain of this bifunctional protein catalyzes the conversion of 4'-phosphopantetheine into dephospho-coenzyme A (dpCoA) while its dephospho-CoA kinase domain completes the final step by phosphorylating dpCoA to form CoA. Mutations in this gene are associated with neurodegeneration with brain iron accumulation (NBIA). Alternative splicing results in multiple isoforms.

### Recommended Dilutions

WB 1:500 - 1:2000

### Immunogen Information

**Gene ID**

80347

**Swiss Prot**

Q13057

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 345-564 of human CoA synthase (COASY) (NP\_079509.5).

**Synonyms**

NBP; DPCK; PPAT; UKR1; NBIA6; PCH12; pOV-2; CoA synthase (COASY)

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

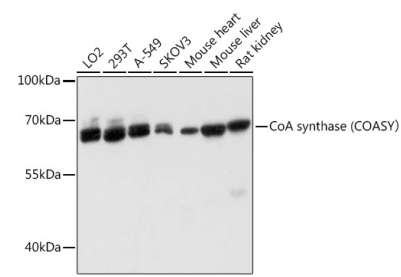
Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH 7.3.

# Validation Data



Western blot analysis of various lysates using CoA synthase (COASY) Rabbit pAb (A12179) at 1:3000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.