

For Research Use Only

# COASY Monoclonal antibody, PBS Only



Catalog Number: 68358-1-PBS

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>68358-1-PBS       | <b>GenBank Accession Number:</b><br>BC020985 | <b>Purification Method:</b><br>Protein G purification |
| <b>Size:</b><br>1mg/ml                      | <b>GeneID (NCBI):</b><br>80347               | <b>CloneNo.:</b><br>1D1C11                            |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>Q13057                 |   |
| <b>Isotype:</b><br>IgG1                     | <b>Full Name:</b><br>Coenzyme A synthase     |   |
| <b>Immunogen Catalog Number:</b><br>AG33142 | <b>Calculated MW:</b><br>564 aa, 62 kDa      |   |
|   | <b>Observed MW:</b><br>62 kDa                |   |

## Applications

**Tested Applications:**  
Indirect ELISA, IHC, WB

**Species Specificity:**  
rat, mouse, human

## Background Information

Bifunctional coenzyme A synthase (COASY) is a bifunctional enzyme that catalyzes the fourth and fifth sequential steps of the CoA biosynthetic pathway. The fourth reaction is catalyzed by the phosphopantetheine adenyltransferase, 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. It was reported that having a key role in erythroid maturation and identified upstream and downstream metabolites of COASY as a potential treatment for anemia in patients with MDS-RS (PMID: 36857430). COASY has 2 isoforms with molecular weights of 62 and 65 kDa.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

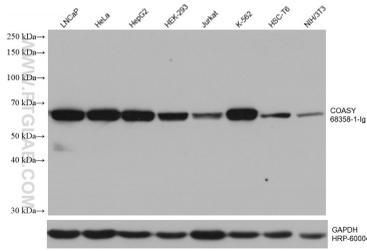
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

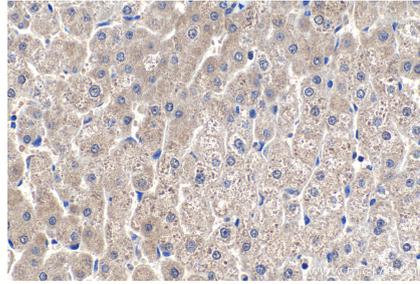
W: [ptgcn.com](http://ptgcn.com)

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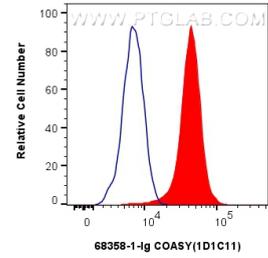
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68358-1-Ig (COASY antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68358-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 68358-1-Ig (COASY antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68358-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.8 ug COASY Monoclonal antibody (68358-1-Ig, Clone:1D1C11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.8 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 68358-1-PBS in a different storage buffer