

For Research Use Only

COASY Polyclonal antibody

Catalog Number: 12991-1-AP **1 Publications**



Basic Information

Catalog Number: 12991-1-AP	GenBank Accession Number: BC020985	Purification Method: Antigen affinity purification
Size: 750 µg/ml	GeneID (NCBI): 80347	Recommended Dilutions: WB 1:500-1:3000
Source: Rabbit	UNIPROT ID: Q13057	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: Coenzyme A synthase	IHC 1:20-1:200
Immunogen Catalog Number: AG3651	Calculated MW: 564 aa, 62 kDa	IF/ICC 1:50-1:500
	Observed MW: 62 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells
Cited Applications: WB	IP : HeLa cells,
Species Specificity: human, mouse, rat	IHC : human colon cancer tissue,
Cited Species: rat	IF/ICC : HeLa cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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 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. 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Han-Qing Pang	29551975	Front Pharmacol	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

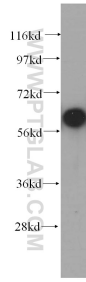
T: 4006900926

E: Proteintech-CN@ptglab.com

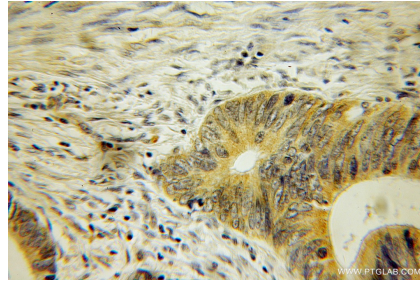
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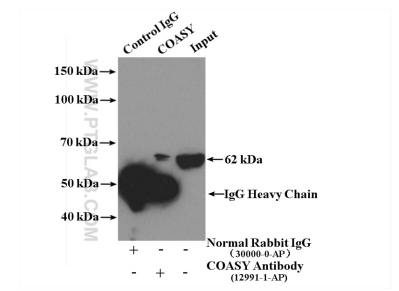
Selected Validation Data



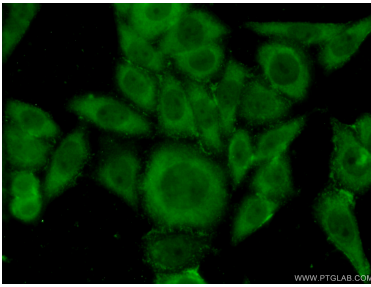
HeLa cells were subjected to SDS PAGE followed by western blot with 12991-1-AP (COASY antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 12991-1-AP (COASY antibody) at dilution of 1:100 (under 10x lens).



IP result of anti-COASY (IP:12991-1-AP, 4ug; Detection:12991-1-AP 1:500) with HeLa cells lysate 3200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 12991-1-AP (COASY antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).