

## Product datasheet for **TA503343AM**

### COASY Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2H1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2H1
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human COASY(NP_079509) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	62.1 kDa
Gene Name:	Coenzyme A synthase
Database Link:	<a href="#">NP_079509</a> <a href="#">Entrez Gene 71743 Mouse</a> <a href="#">Entrez Gene 287711 Rat</a> <a href="#">Entrez Gene 80347 Human</a> <a href="#">Q13057</a>
Background:	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]

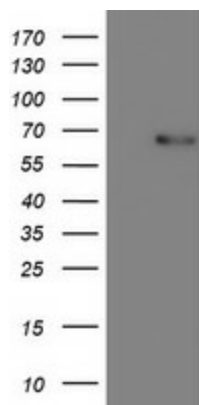


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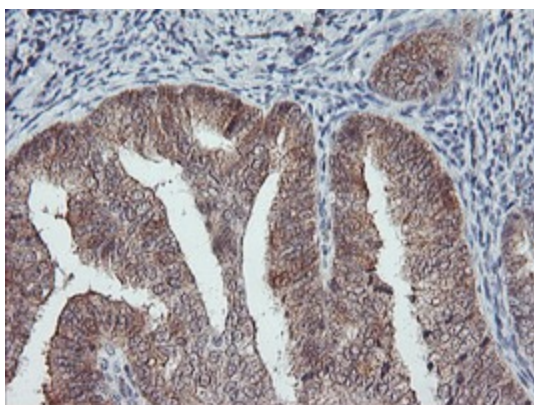
**Synonyms:** DPCK; NBIA6; NBP; pOV-2; PPAT; UKR1

**Protein Pathways:** Metabolic pathways, Pantothenate and CoA biosynthesis

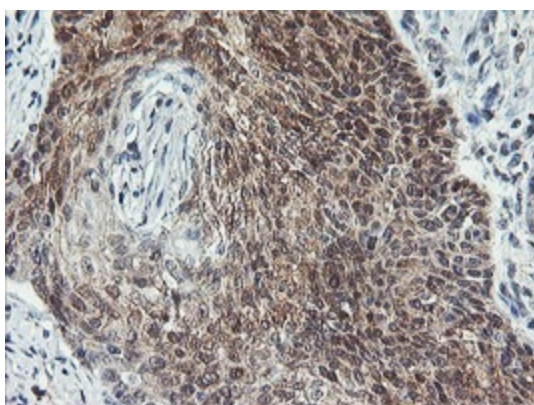
**Product images:**



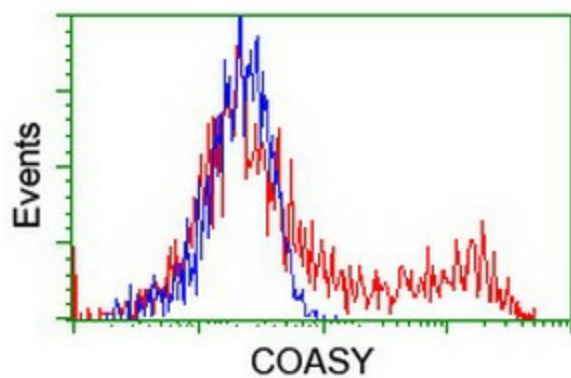
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY COASY ([RC220733], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-COASY. Positive lysates [LY403068] (100ug) and [LC403068] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-COASY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503343])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-COASY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503343])



HEK293T cells transfected with either [RC220733] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-COASY antibody ([TA503343]), and then analyzed by flow cytometry.