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Product datasheet for CF503344

COASY Mouse Monoclonal Antibody [Clone ID: OTI3B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3B3
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human COASY(NP_079509) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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:	NP_079509 Entrez Gene 71743 MouseEntrez Gene 287711 RatEntrez Gene 80347 Human Q13057

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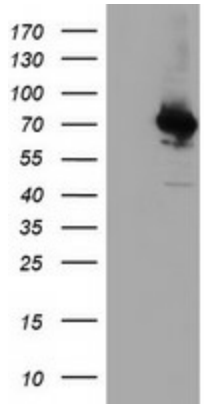
Background: Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. COASY is a bifunctional enzyme that catalyzes the 2 last steps in CoA synthesis. These activities are performed by 2 separate enzymes, phosphopantetheine adenylyltransferase (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]

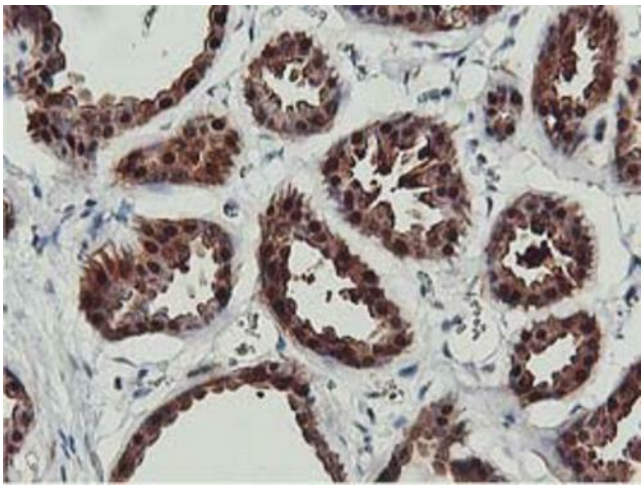
Synonyms: DPCK; NBIA6; NBP; pOV-2; PPAT; UKR1

Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY COASY (Cat# [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(Cat# [TA503344]). Positive lysates [LY403068] (100ug) and [LC403068] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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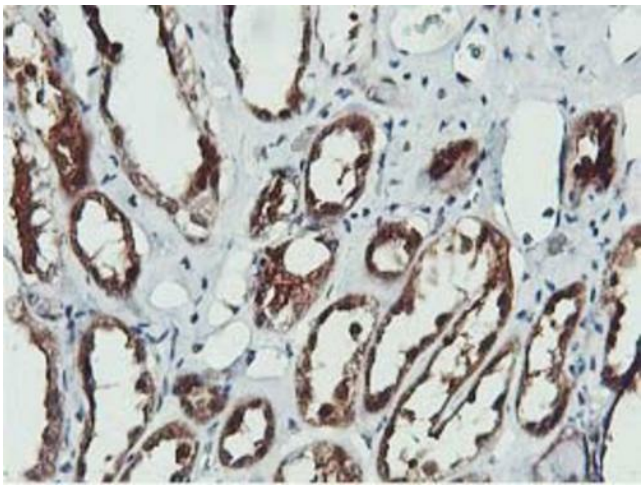
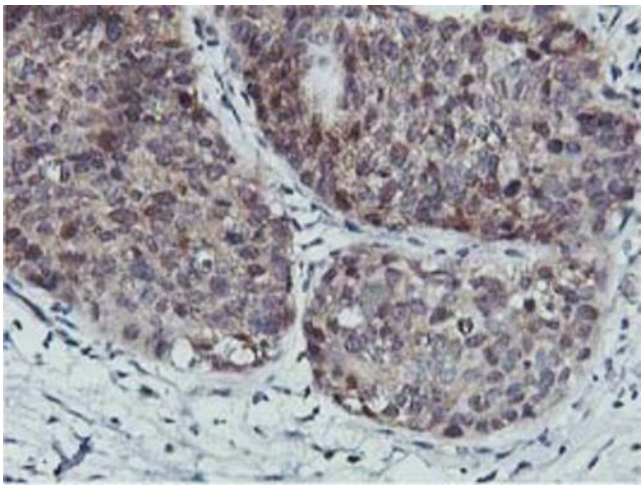
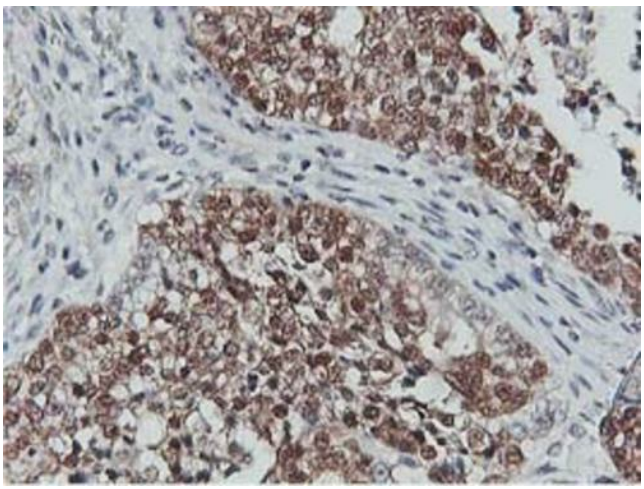


Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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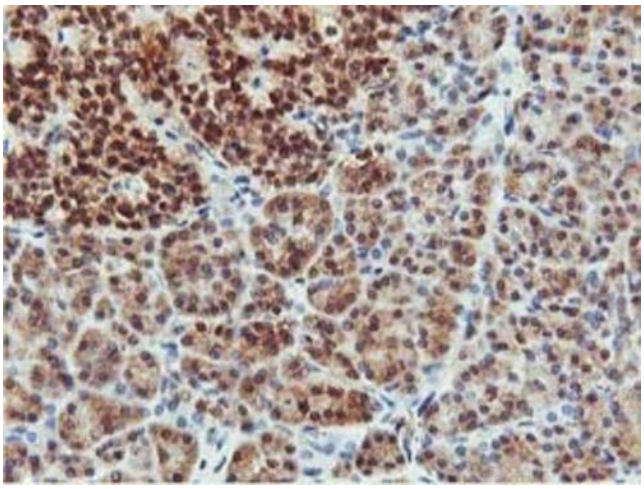
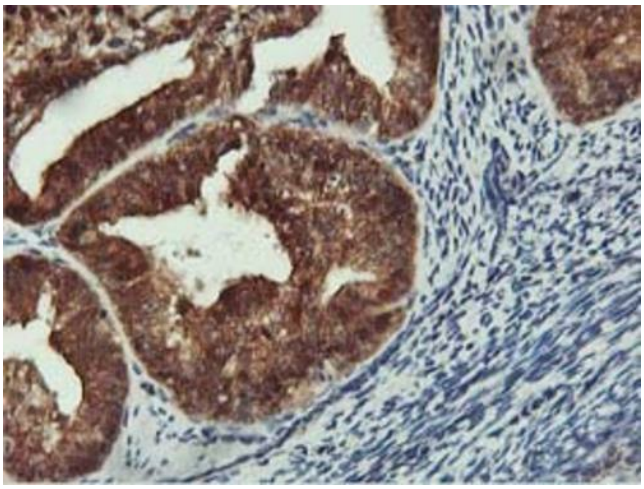
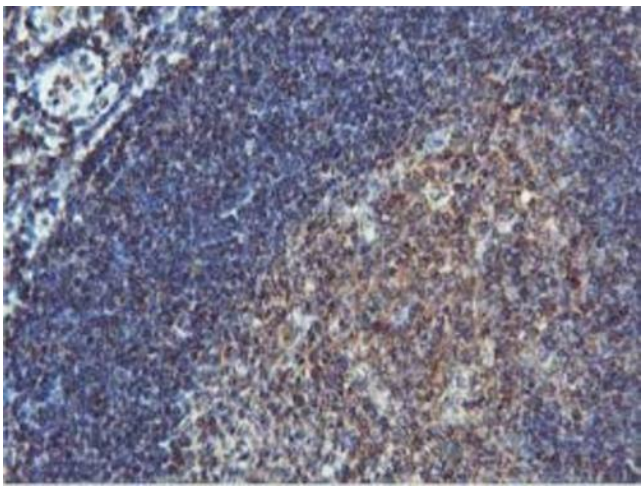


Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-COASY mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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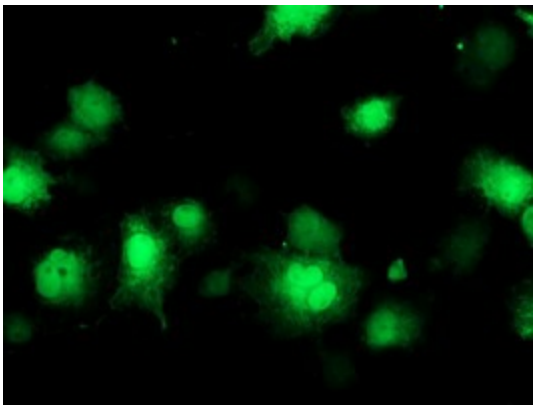
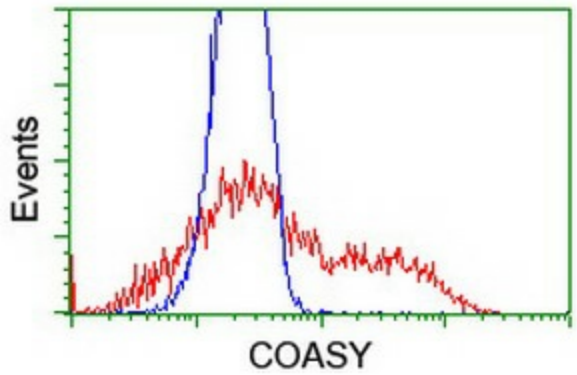


Anti-COASY mouse monoclonal antibody ([TA503344]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY COASY ([RC220733]).



HEK293T cells transfected with either [RC220733] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-COASY antibody ([TA503344]), and then analyzed by flow cytometry.

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