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Product datasheet for TA500873M

Aconitase 2 (ACO2) Mouse Monoclonal Antibody [Clone ID: OTI7G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7G4
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ACO2 (NP_001089) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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:	85.4 kDa
Gene Name:	aconitase 2
Database Link:	NP_001089 Entrez Gene 11429 MouseEntrez Gene 79250 RatEntrez Gene 50 Human Q99798
Background:	The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification.

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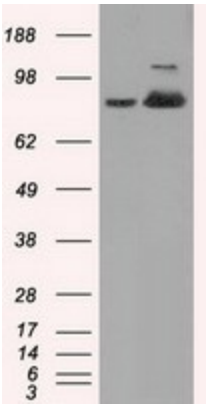
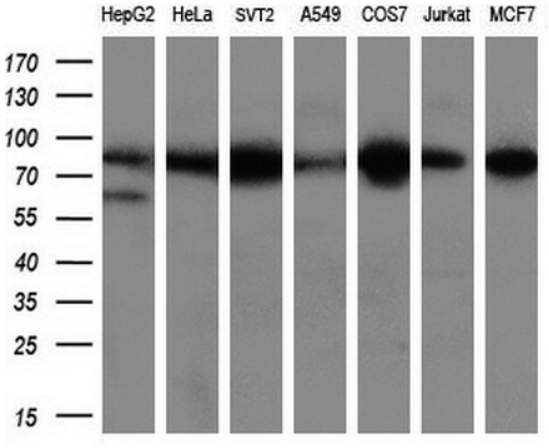
Synonyms: ACONM; HEL-S-284; ICRD; OCA8; OPA9

Protein Pathways: Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

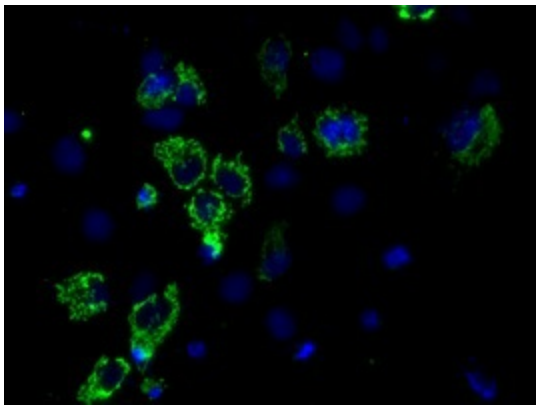
Product images:



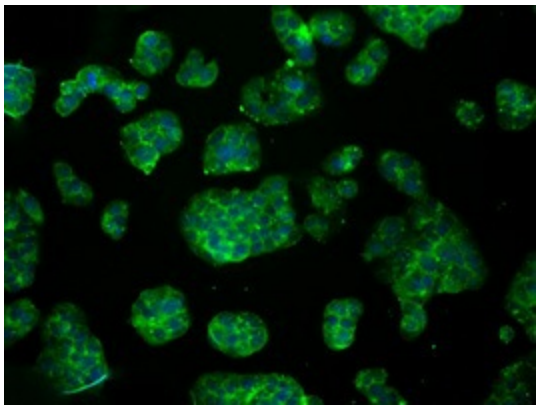
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ACO2 ([RC204307], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACO2. Positive lysates [LY400442] (100ug) and [LC400442] (20ug) can be purchased separately from OriGene.



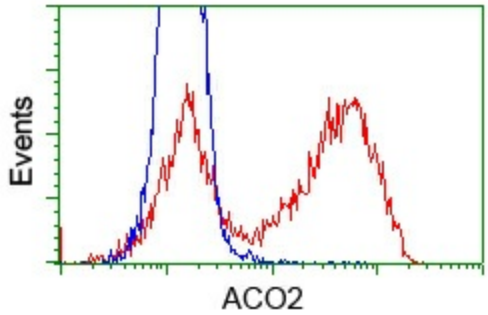
Western blot analysis of extracts (10ug) from 7 different cell lines by using anti-ACO2 monoclonal antibody (1:200).



Anti-ACO2 mouse monoclonal antibody ([TA500873]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ACO2 ([RC204307]).



Immunofluorescent staining of HepG2 cells using anti-ACO2 mouse monoclonal antibody ([TA500873]).



HEK293T cells transfected with either pCMV6-ENTRY ACO2 ([RC204307]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-ACO2 mouse monoclonal ([TA500873]), and then analyzed by flow cytometry.