

## Product datasheet for **TA500913AM**

### Aconitase 2 (ACO2) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3G10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G10
Applications:	FC, IF
Recommended Dilution:	IF 1:100, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
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:	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:	85.4 kDa
Gene Name:	aconitase 2
Database Link:	<a href="#">NP_001089</a> <a href="#">Entrez Gene 11429 Mouse</a> <a href="#">Entrez Gene 79250 Rat</a> <a href="#">Entrez Gene 50 Human</a> <a href="#">Q99798</a>
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.

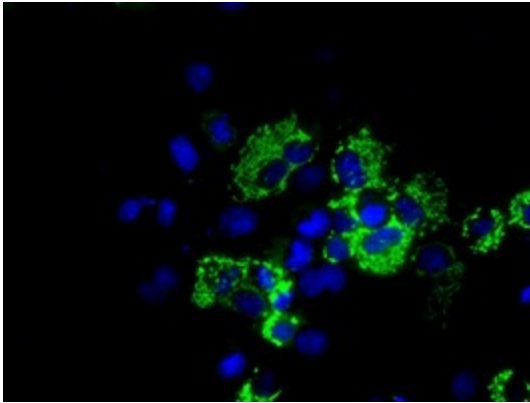


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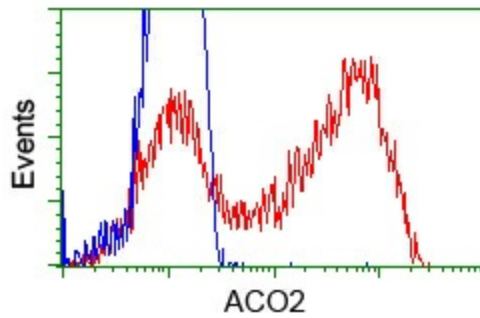
**Synonyms:** ACONM; HEL-S-284; ICRD; OCA8; OPA9

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

**Product images:**



Anti-ACO2 mouse monoclonal antibody ([TA500913]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ACO2 ([RC204307]).



HEK293T cells transfected with either pCMV6-ENTRY ACO2 ([RC204307]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-ACO2 mouse monoclonal ([TA500913]), and then analyzed by flow cytometry.