

Product datasheet for **TA349000**

Aconitase 2 (ACO2) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 0.01-0.03 ug/ml IHC: 3-5 ug/ml
Reactivity:	Human, Mouse, Rat, Pig (Expected from sequence similarity: Dog, Cow)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-Aconitase 2 (aa541-555) Antibody: Peptide with sequence C-QDTYQHPPKDSSGQH, from the internal region of the protein sequence according to NP_001089.1.
Formulation:	Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	aconitase 2
Database Link:	NP_001089 Entrez Gene 11429 MouseEntrez Gene 79250 RatEntrez Gene 474487 DogEntrez Gene 50 Human Q99798



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Background:

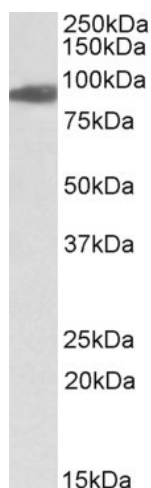
The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to 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. [provided by RefSeq, Jul 2008]

Synonyms:

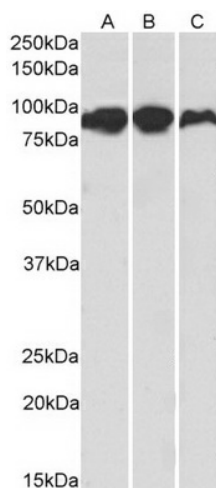
ACONM; HEL-S-284; ICRD; OCA8; OPA9

Protein Pathways:

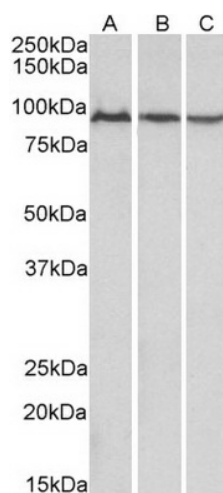
Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

Product images:


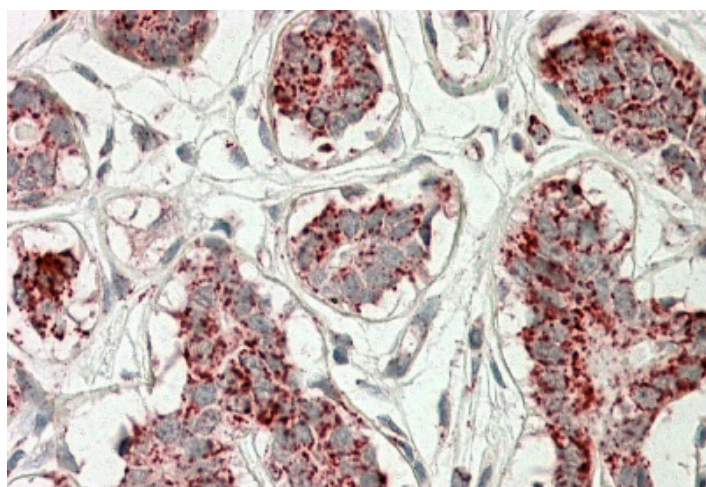
TA349000 (0.01 ug/ml) staining of Human Heart lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA349000 (0.1 ug/ml) staining of Human (A), Mouse (B) and Rat (C) Adipose lysates (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA349000 (0.01 ug/ml) staining of Mouse (A), Rat (B) and Pig (C) Skeletal Muscle lysates (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA349000 (3.8 ug/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.