

Product datasheet for **TA302090S**

Aconitase 2 (ACO2) Rabbit Polyclonal Antibody

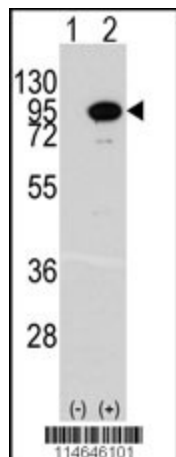
Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:10~50
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This ACO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 294-325 amino acids from the Central region of human ACO2.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85425 Da
Gene Name:	aconitase 2
Database Link:	NP_001089 Entrez Gene 50 Human Q99798
Background:	ACO2 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. 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.
Synonyms:	ACONM; HEL-S-284; ICRD; OCA8; OPA9
Protein Pathways:	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

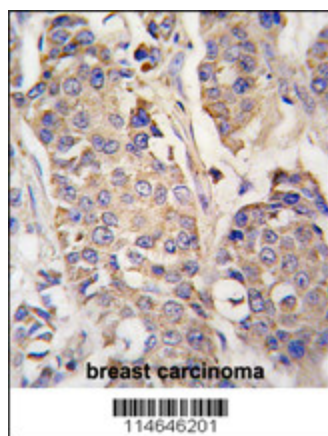


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Product images:



Western blot analysis of ACO2 (arrow) using rabbit polyclonal ACO2 Antibody (Center) (Cat.# [TA302090]). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ACO2 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with ACO2 antibody (Center) (Cat.# [TA302090]), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.