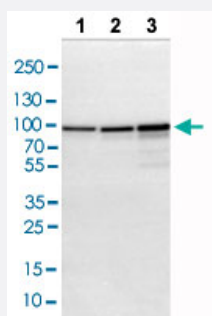


ACO2 polyclonal antibody

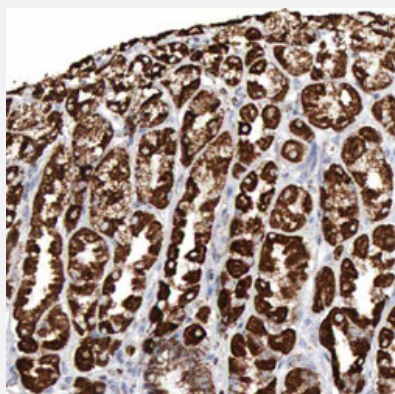
Catalog # PAB29305 Size 100 uL

Applications



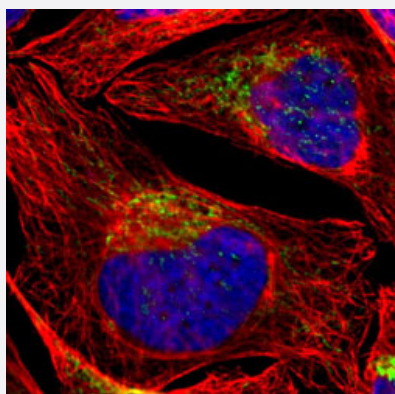
Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate, Lane 2: NBT-II cell lysate, Lane 3: PC12 cell lysate with ACO2 polyclonal antibody (Cat# PAB29305).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach tissue with ACO2 polyclonal antibody (Cat# PAB29305) at 1:200 - 1:500 dilution.



Immunofluorescence

Immunofluorescence staining of U-2 OS cells with ACO2 polyclonal antibody (Cat# PAB29305) under 1-4 ug/mL working concentration.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human ACO2.
Immunogen	Recombinant protein corresponding to amino acids 544-693 of human ACO2.
Sequence	GKKFRLEAPDADELPGGEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLE DLQLIKVKGKCTTDHISAAGPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVVTQEFGPVPD TAR YYKKHGIRWVVGIDENYGEG
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (1:200-1:500) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate, Lane 2: NBT-II cell lysate, Lane 3: PC12 cell lysate with ACO2 polyclonal antibody (Cat# PAB29305).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach tissue with ACO2 polyclonal antibody (Cat# PAB29305) at 1:200 - 1:500 dilution.

- Immunofluorescence

Immunofluorescence staining of U-2 OS cells with ACO2 polyclonal antibody (Cat# PAB29305) under 1-4 ug/mL working concentration.

Gene Info — ACO2

Entrez GeneID	50
Protein Accession#	A2A274
Gene Name	ACO2
Gene Alias	ACONM, MGC20605, MGC33908
Gene Description	aconitase 2, mitochondrial
Omim ID	100850
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000042146 OTTHUMP00000165920 aconitase 2 aconitate hydratase citrate hydro-lyase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glyoxylate and dicarboxylate metabolism](#)
- [Metabolic pathways](#)

- [Reductive carboxylate cycle \(CO₂ fixation\)](#)