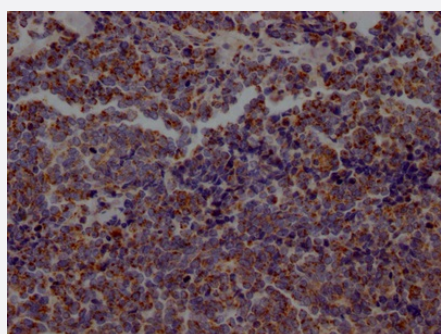


RecomAb™

ACO2 recombinant monoclonal antibody, clone 8H4

Catalog # RAB07477 Size 100 uL

Applications



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

Immunohistochemical analysis of paraffin-embedded human lung cancer using ACO2 recombinant monoclonal antibody, clone 8H4 (Cat # RAB07477) on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Specification

| | |
|---------------------|--|
| Product Description | Rabbit recombinant monoclonal antibody raised against human ACO2. |
| Antibody Species | Rabbit |
| Immunogen | Original antibody is raised against a synthetic peptide corresponding to human ACO2. |
| Reactivity | Human |
| Form | Liquid |
| Purification | Affinity chromatography purification |
| Isotype | IgG |
| Recommend Usage | ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol) |

Storage Instruction

Store at -20°C or -80°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

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ACO2

Entrez GeneID[50](#)**Protein Accession#**[Q99798](#)**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 \(CO₂ fixation\)](#)