10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACO2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP1936c

Specification

ACO2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q99798

ACO2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 50

Other Names
Aconitate hydratase, mitochondrial, Aconitase, Citrate hydro-lyase, ACO2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1936c was selected from the Center region of human ACO2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ACO2 Antibody (Center) Blocking Peptide - Protein Information

Name ACO2

Function
Catalyzes the isomerization of citrate to isocitrate via cis- aconitate.

Cellular Location
Mitochondrion {ECO:0000250|UniProtKB:P16276}.

ACO2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

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ACO2 Antibody (Center) Blocking Peptide - Images

ACO2 Antibody (Center) Blocking Peptide - 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. 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.

ACO2 Antibody (Center) Blocking Peptide - References

Juang, H.H., Mol. Genet. Metab. 81(3):244-252 (2004).Bota, D.A., et al., Nat. Cell Biol. 4(9):674-680 (2002).Gruer, M.J., et al., Trends Biochem. Sci. 22(1):3-6 (1997).Klausner, R.D., et al., Mol. Biol. Cell 4(1):1-5 (1993).Geurts van Kessel, A.H., et al., Cytogenet. Cell Genet. 28(3):169-172 (1980).