



ACO2 Polyclonal Antibody

Catalog No	YP-Ab-10783
Isotype	IgG
Reactivity	Human;Mouse;Rat;Canine
Applications	WB;ELISA
Gene Name	ACO2
Immunogen	Synthesized peptide derived from human ACO2. at AA range: 421-470
Specificity	ACO2 Polyclonal Antibody detects endogenous levels of ACO2
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ACO2;ACO 2;Aconitase;Aconitase2;Citrate hydro-lyase;Aconitate hydratase; mitochondrial (Aconitase) (EC 4.2.1.3) (Citrate hydro-lyase)
Observed Band	90kD
Calculated Molecular Weight	90kD
Cell Pathway	Mitochondrion .
Tissue Specificity	Brain,Cajal-Retzius cell,Fetal brain cortex,Skeletal muscle,Uterus,
Function	catalytic activity:Citrate = isocitrate.,cofactor:Binds 1 4Fe-4S cluster per subunit. Binding of a 3Fe-4S cluster leads to an inactive enzyme.,online information:Aconitase entry,pathway:Carbohydrate metabolism; tricarboxylic acid cycle.,similarity:Belongs to the aconitase/IPM isomerase family., subunit:Monomer.,
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],

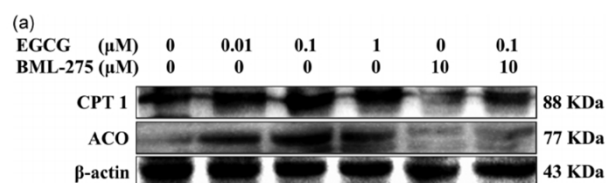
matters needing attention

Avoid repeated freezing and thawing!

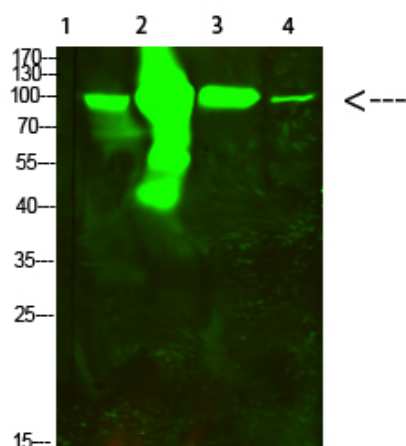
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Ding, Hongyan, et al. "Epigallocatechin 3 gallate activates the AMP activated protein kinase signaling pathway to reduce lipid accumulation in canine hepatocytes." *Journal of Cellular Physiology* 236.1 (2021): 405-416.



Western Blot analysis of 1,mouse-kidney 2,mouse-heart 3,3T3 4,Hela cells using primary antibody diluted at 1:500(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour)