

Aconitase 2 Polyclonal Antibody

Catalog number: 11134-1-AP

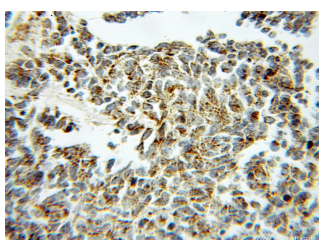
Size: 24 µg/150 µl

Source: Rabbit

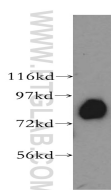
Isotype: IgG

Synonyms:

ACO2; ACO2, Aconitase,
aconitase 2, aconitase 2,
mitochondrial, ACONM, Citrate
hydro lyase



Immunohistochemical of paraffin-embedded human lung cancer using 11134-1-AP (ACO2 antibody) at dilution of 1:50 (under 10x lens)



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 11134-1-AP (ACO2 antibody) at dilution of 1:400

Background

ACO2 (aconitate hydratase, mitochondrial) is also named as citrate hydro-lyase and belongs to the aconitase/IPM isomerase family. It plays a key function in cellular energy production, and loss of its activity has a major impact on cellular and organismal survival. Western blot shows two bands of 83 kDa and 40 kDa. The 40 kDa fragment decreases with age and oxidative stress, whereas other fragmentation products with molecular weights between 40 and 83 kDa increased with age and MnSOD (mitochondrial manganese superoxide dismutase) deficiency (PMID:12459471). Defects in ACO2 are the cause of infantile cerebellar-retinal degeneration (ICRD).

Applications

Tested applications:	ELISA, WB, IHC
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated Aconitase 2 MW:	85kd
Observed Aconitase 2 MW:	85kd
Positive WB detected in	Human skeletal muscle tissue, HeLa cells, human heart tissue, human liver tissue, mouse heart tissue
Positive IHC detected in	Human lung cancer tissue, human prostate cancer tissue
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1590
GenBank accession number:	BC014092
Gene ID (NCBI):	50
Full name:	Aconitase 2, mitochondrial

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.