Citrate synthase Antibody

Catalog No: #48284

Package Size: #48284-1 50ul #48284-2 100ul

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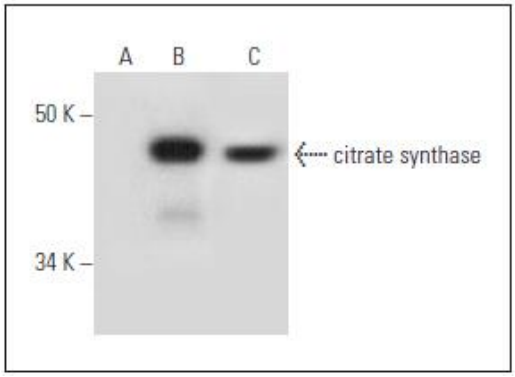
Description

Product Name	Citrate synthase Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	1G1
Purification	ProA affinity purified
Applications	WB, IP, IF, IHC(P)
Species Reactivity	Hu, Ms, Rt
Immunogen Description	An epitope mapping between amino acids 259-292 of citrate synthase of human origin.
Other Names	CISY_HUMAN antibody Citrate synthase antibody Citrate synthase, mitochondrial antibody citrate synthetase antibody Cs antibody EC 2.3.3 antibody EC 2.3.3.1 antibody
Accession No.	Swiss-Prot#:O75390
Uniprot	O75390
GeneID	1431;
Calculated MW	52kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:100-1:1,000IHC: 1:50-500IP: 1-2 μg per 100-500 μg of total protein(1 ml of cell lysate)

Images



Western blot analysis of citrate synthase expression in non-transfected 293T (A), mouse citrate synthase transfected 293T (B) and K-562 (C) whole cell lysates.

Background

Citrate synthase (CS) is a 466 amino acid mitochondrial matrix protein that functions as the first and rate-limiting enzyme of the tricarboxylic acid cycle. Essential in mitochondrial respiration and involved in the conversion of glucose to lipid, citrate synthase is found the great majority of cells that are capable of oxidative metabolism. The gene encoding citrate synthase maps to human chromosome 12q13.3, which is transcribed into two alternatively

spliced variants designated CSa and CSb. Human chromosome 12 encodes over 1,100 genes, comprises approximately 4.5% of the human genome and is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

References

Note: This product is for in vitro research use only