Data Sheet (Cat.No.TMAC-00857)

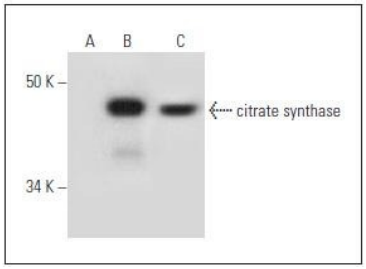
Anti-Citrate Synthase Antibody (7L135)

Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 52 kDa.
Clone:	7L135
Purification:	ProA affinity purified

Applications

Verified Activity: 1. 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.



Application:	IF,IHC-P,IP,WB
Recommended	WB: 1:100-1000; IHC-P: 1:50-500; IP: 1-2 μg per 100-500 μg of total protein(1 ml of cell lysate)

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	An epitope mapping between amino acids 259-292 of citrate synthase of human origin
Antigen Species:	human
Uniprot ID:	O75390
Synonyms:	gltA;Citrate synthase

Research 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.

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