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Citrate Synthetase Rabbit mAb

Catalog # AP76440

Product Information

Application	WB, IHC-P
Primary Accession	O75390
Reactivity	Rat, Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	51712

Additional Information

Gene ID	1431
Other Names	CS
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

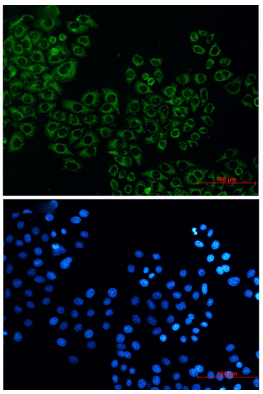
Protein Information

Name	CS
Function	Key enzyme of the Krebs tricarboxylic acid cycle which catalyzes the synthesis of citrate from acetyl coenzyme A and oxaloacetate.
Cellular Location	Mitochondrion matrix {ECO:0000250|UniProtKB:P00889}

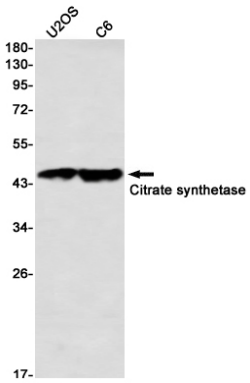
Background

Citrate synthase (CS), the first and rate-limiting enzyme of the tricarboxylic acid cycle, plays a key role in regulating energy generation of mitochondrial respiration(PMID:19479947). It belongs to the citrate synthase family. The deduced 466-amino acid protein contains an N-terminal mitochondrial targeting sequence and a motif highly conserved in citrate synthases(PMID:12549038). It can exsit as a dimer(PMID:8749851). Northern blot analysis detected no CS expression in thymus and small intestine(PMID:12549038). This antibody is specific to CS.

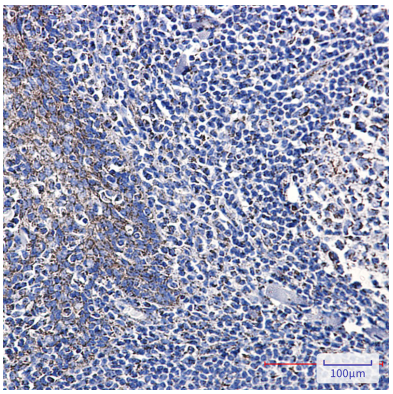
Images



Immunocytochemistry analysis of Citrate Synthetase (green) in Hela using Citrate Synthetase antibody,and DAPI(blue).



Western blot analysis of Citrate synthetase in U2OS, C6 lysates using Citrate synthetase antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using Citrate synthetase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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