

For Research Use Only

Citrate synthase Recombinant monoclonal antibody

Catalog Number: 86549-1-RR



Basic Information

Catalog Number: 86549-1-RR	GenBank Accession Number: BC010106	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1431	CloneNo.: 251433D2
Source: Rabbit	UNIPROT ID: O75390	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:500-1:2000
Isotype: IgG	Full Name: citrate synthase	
Immunogen Catalog Number: AG9117	Calculated MW: 466 aa, 52 kDa	
	Observed MW: 45-50 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : LNCaP cells, mouse heart tissue, Jurkat cells, K-562 cells, HepG2 cells, NIH/3T3 cells, HSC-T6 cells
	IF/ICC : HepG2 cells, U2OS cells

Background Information

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 exist as a dimer(PMID:8749851). Northern blot analysis detected no CS expression in thymus and small intestine(PMID:12549038).

Storage

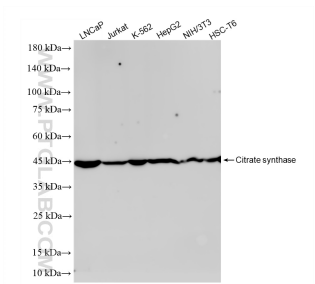
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

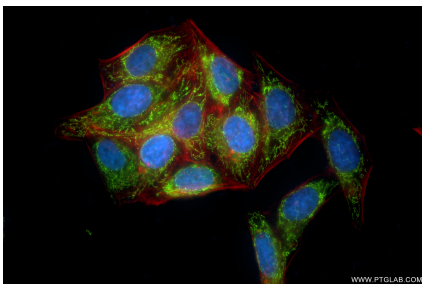
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

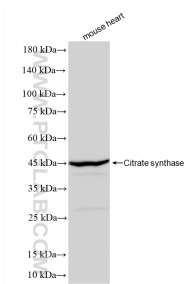
Selected Validation Data



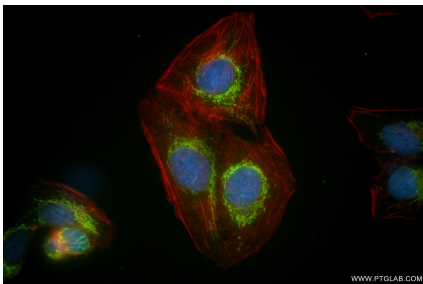
Various lysates were subjected to SDS PAGE followed by western blot with 86549-1-RR (CS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



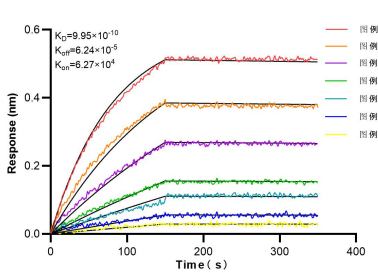
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CS antibody (86549-1-RR, Clone: 251433D2) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



mouse heart tissue were subjected to SDS PAGE followed by western blot with 86549-1-RR (CS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using CS antibody (86549-1-RR, Clone: 251433D2) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 86549-1-RR against Human Citrate synthase were performed. The affinity constant is 0.995 nM.