

CoraLite® Plus 647-conjugated citrate synthase Monoclonal antibody

Catalog Number: **CL647-67784**

Basic Information

Catalog Number: CL647-67784	GenBank Accession Number: BC010106	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 1431	CloneNo.: 2F9G6
Source: Mouse	UNIPROT ID: O75390	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Full Name: citrate synthase	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Immunogen Catalog Number: AG9255	Calculated MW: 466 aa, 52 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF : MCF-7 cells,
Species Specificity: Human, mouse, rat	

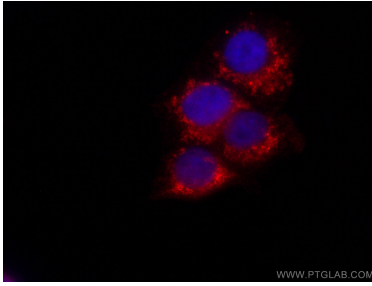
Background Information

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). This antibody is specific to CS.

Storage

Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite® Plus 647 citrate synthase antibody (CL647-67784, Clone: 2F9G6) at dilution of 1:200.