

For Research Use Only

citrate synthase Monoclonal antibody, PBS Only



Catalog Number: 67784-1-PBS

Basic Information

Catalog Number: 67784-1-PBS	GenBank Accession Number: BC010106	Purification Method: Protein G purification
Size: 1 mg/ml	GeneID (NCBI): 1431	CloneNo.: 2F9G6
Source: Mouse	UNIPROT ID: O75390	
Isotype: IgG1	Full Name: citrate synthase	
Immunogen Catalog Number: AG9255	Calculated MW: 466 aa, 52 kDa	

Applications

Tested Applications:
WB, Indirect ELISA, IHC, IF

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 -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

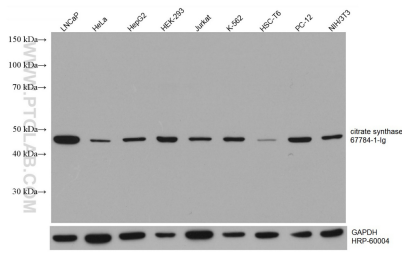
T: 4006900926

E: Proteintech-CN@ptglab.com

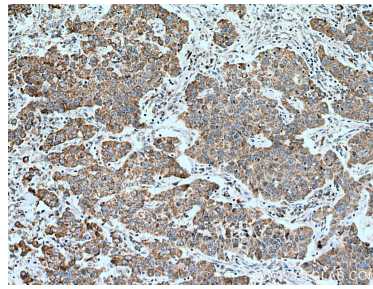
W: ptgcn.com

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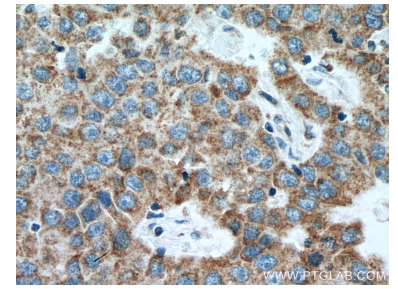
Selected Validation Data



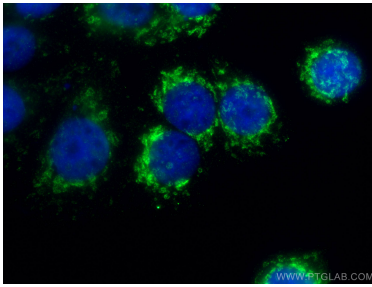
LNCaP cells were subjected to SDS PAGE followed by western blot with 67784-1-Ig (citrate synthase antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 67784-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67784-1-Ig (citrate synthase antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67784-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67784-1-Ig (citrate synthase antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67784-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using citrate synthase antibody (67784-1-Ig, Clone: 2F9G6) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). DAPI (blue). This data was developed using the same antibody clone with 67784-1-PBS in a different storage buffer formulation.