Citrate synthase Polyclonal ANTIBODY

Catalog Number: 16131-1-AP

Basic Information

Catalog Number: 16131-1-AP
Size: 47 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification

GenBank Accession Number:
GeneID (NCBI):
Full Name:
citrate synthase
Observed MW:
50 kDa

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 μg for IP and 1:1000-1:2000 for WB
IHC: 1:100-1:400
IF: 1:50-1:200

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA
Cited Applications:
IHC, WB

Species Specificity:
human, mouse, rat
Cited Species:
human, mouse, rat

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

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<tr>
<th>Author</th>
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<tr>
<td>Jędrzej Małecki</td>
<td>28857308</td>
<td>J Biol Chem</td>
<td>WB</td>
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<tr>
<td>Xiaoyu Ma</td>
<td>25301052</td>
<td>Nat Commun</td>
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<tr>
<td>Yaoshan Dun</td>
<td>28959009</td>
<td>Oxid Med Cell</td>
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Storage

Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For research use only

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

E: proteintech@ptglab.com
W: ptglab.com

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HEK-293 cells were subjected to SDS PAGE followed by western blot with 16131-1-AP (Citrate synthase antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.


Immunohistochemistry of paraffin-embedded human liver cancer tissue slide using 16131-1-AP (Citrate synthase antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunofluorescent analysis of 10% Formaldehyde fixed HepG2 cells using 16131-1-AP (Citrate synthase antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).