

For Research Use Only

SUCLG1 Polyclonal antibody

Catalog Number: 14923-1-AP

9 Publications



Basic Information

Catalog Number:

14923-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6481

GenBank Accession Number:

BC000504

GeneID (NCBI):

8802

UNIPROT ID:

P53597

Full Name:

succinate-CoA ligase, alpha subunit

Calculated MW:

35 kDa

Observed MW:

35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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

Positive Controls:

WB : HepG2 cells, rat liver tissue

IP : mouse kidney tissue,

IHC : mouse kidney tissue, human liver cancer tissue

Background Information

SUCLG1(succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial) is also named as SCS-alpha and belongs to the succinate/malate CoA ligase alpha subunit family. The SUCLG1 gene encodes a 35 kDa protein with a 40 amino acids transit peptide. This enzyme catalyzes the ATP- or GTP-dependent ligation of succinate and CoA to form succinyl-CoA. Defects in SUCLG1 are the cause of mitochondrial DNA depletion syndrome type 9 (MTDPS9).

Notable Publications

Author	Pubmed ID	Journal	Application
Sophie Trefely	34856123	Mol Cell	WB
Pengkai Sun	36333306	Nat Commun	WB
Xin Liu	34998831	J Mol Cell Cardiol	WB,IP

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

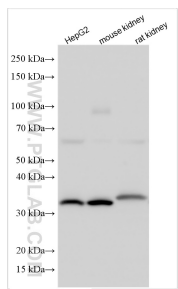
T: 4006900926

E: Proteintech-CN@ptglab.com

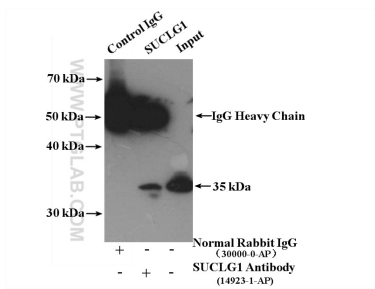
W: ptgcn.com

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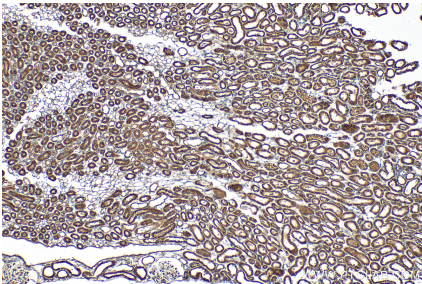
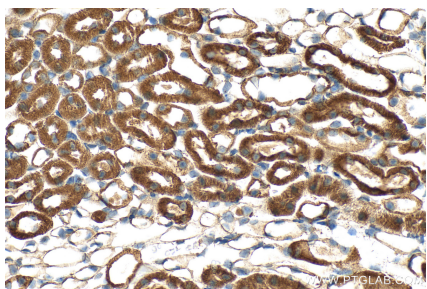
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 14923-1-AP (SUCLG1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-SUCLG1 (IP:14923-1-AP, 4ug; Detection:14923-1-AP 1:500) with mouse kidney tissue lysate 2800 ug.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 14923-1-AP (SUCLG1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).