

GAC-specific Polyclonal antibody

Catalog Number: 19958-1-AP

19 Publications

Basic Information

Catalog Number:

19958-1-AP

Size:

287 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

AF158555

GeneID (NCBI):

2744

UNIPROT ID:

O94925

Full Name:

glutaminase

Calculated MW:

65 kDa

Observed MW:

58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:100-1:400

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

CoIP, IF, IHC, IP, WB

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

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 : HEK-293 cells, HeLa cells

IP : mouse kidney tissue,

IHC : human heart tissue, human kidney tissue, human pancreas cancer tissue

Background Information

Glutaminase C (GAC), a splicing variant of the kidney-type glutaminase (KGA) gene, is a vital mitochondrial enzyme protein that catalyzes glutamine to glutamate. GAC is the only isoform present in the mitochondria (PMID:22228304). In a normal state, immunodecoration with antibodies directed against GAC identified an abundant complex of 232 kDa as a tetrameric form of GAC, the DPAA can directly destructed the native tetrameric GAC complex to accumulate the unassembled one (50-90 kDa). (PMID:22493432). This antibody is specific to GAC isoform. It has no cross reaction to KGA.

Notable Publications

Author	Pubmed ID	Journal	Application
Michael Lampa	28950000	PLoS One	WB
Polina Matre	27806325	Oncotarget	WB
Niki Marie Zacharias	29170516	Sci Rep	WB

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

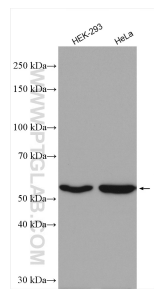
For technical support and original validation data for this product please contact:

T: 4006900926

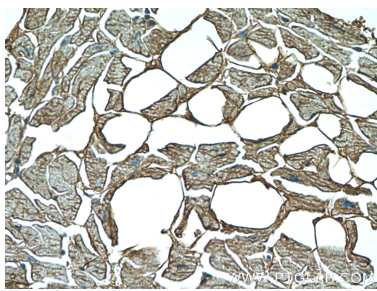
E: Proteintech-CN@ptglab.comW: ptgcn.com

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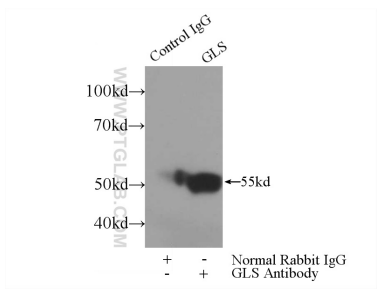
Selected Validation Data



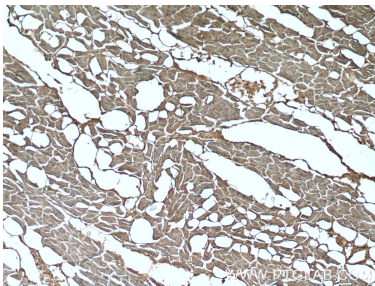
Various lysates were subjected to SDS PAGE followed by western blot with 19958-1-AP (GAC-specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 19958-1-AP (GAC-specific Antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-GAC-specific (IP:19958-1-AP, 3ug; Detection:19958-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 19958-1-AP (GAC-specific Antibody) at dilution of 1:200 (under 10x lens).