GAC-specific Polyclonal ANTIBODY

Catalog Number: 19958-1-AP

Basic Information

Catalog Number: 19958-1-AP
Size: 43 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number:
GenBank Accession Number: AF168555
GeneID (NCBI): 2744
Full Name: glutaminase
Calculated MW: 65 kDa
Observed MW: 60-65 kDa

Recommended Dilutions:
WB: 1:1000
IP: 0.5-4.0 μg for IP and 1:1000 for WB
IHC: 1:100-1:400

Applications

Tested Applications: IHC, IP, WB, ELISA
Cited Applications: IF, IHC, WB
Species Specificity: human, mouse, rat
Cited Species: human, mouse

Note: 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; mouse kidney tissue
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 DPA 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

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<th>Author</th>
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<tr>
<td>Michael Lampa</td>
<td>28950000</td>
<td>PLoS One</td>
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<td>Polina Matre</td>
<td>27806325</td>
<td>Oncotarget</td>
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<td>Niki Marie Zacharias</td>
<td>29170616</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 technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

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**Selected Validation Data**

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

- HEK-293 cells were subjected to SDS-PAGE followed by western blot with 19958-1-AP (GAC-specific Antibody) at dilution of 1:600 incubated at 4 degree celsius over night.


- Immunochemistry of paraffin-embedded human heart tissue slide using 199958-1-AP (GAC-specific Antibody) at dilution of 1:200 (under 10x lens).