ALDOB Polyclonal ANTIBODY

Catalog Number: 18065-1-AP

Basic Information

Catalog Number: 18065-1-AP
Size: 62 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG12695
GenBank Accession Number: BC029399
GeneID (NCBI): 229
Full Name: aldolase B, fructose-bisphosphate
Calculated MW: 316aa, 35 kDa
Observed MW: 35-40 kDa

Recommended Dilutions:
- WB: 1:500-1:3000
- IP: 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
- IHC: 1:200-1:200
- IF: 1:10-1:100

Applications

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

Positive Controls:
- WB: mouse kidney tissue, mouse skeletal muscle tissue, mouse liver tissue
- IP: mouse brain tissue, mouse kidney tissue
- IHC: human liver tissue
- IF: HepG2 cells

Background Information

Fructose-1,6-bisphosphate aldolase is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Vertebrates have 3 aldolase isozymes, aldolase A (ALDOA), aldolase B (ALDOB), and C. Deficiency of this enzyme ALDOB causes an accumulation of fructose-1-phosphate after fructose intake, which results in toxic symptoms like vomiting, hypoglycemia, jaundice, elevated liver enzymes and hepatomegaly (PMID: 22375183).

Notable Publications

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<tr>
<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Felicia Gerst</td>
<td>30262879</td>
<td>J Clin Endocrinol Metab</td>
<td>WB</td>
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<tr>
<td>Hao-Long Zeng</td>
<td>26254222</td>
<td>Oncotarget</td>
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<tr>
<td>Xuying Zhong</td>
<td>26327773</td>
<td>EMBO Rep</td>
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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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Mouse kidney tissue were subjected to SDS-PAGE followed by western blot with 18065-1-AP (ALDOB antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human liver using 18065-1-AP (ALDOB antibody) at dilution of 1:100 (under 10x lens).

Immunohistochemical of paraffin-embedded human liver using 18065-1-AP (ALDOB antibody) at dilution of 1:100 (under 40x lens).

Immunofluorescent analysis of HepG2 cells, using ALDOB antibody 18065-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).

IP result of anti-ALDOB (IP: 18065-1-AP, 4ug; Detection: 18065-1-AP 1:500) with mouse brain tissue lysate 2400 ug.