### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number: 17356-1-AP</th>
<th>GeneBank Accession Number: BC034502</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size: 40 μg/150 μl</td>
<td>GeneID (NCBI): 55349</td>
</tr>
<tr>
<td>Source: Rabbit</td>
<td>Full Name: choline dehydrogenase</td>
</tr>
<tr>
<td>IgG</td>
<td>Calculated MW: 594aa, 65 kDa</td>
</tr>
<tr>
<td>Purification Method: Antigen affinity purification</td>
<td>Observed MW: 60 kDa</td>
</tr>
<tr>
<td>Immunogen Catalog Number: AG10914</td>
<td></td>
</tr>
</tbody>
</table>

### Applications

**Tested Applications:**
- IHC, WB, ELISA

**Cited Applications:**
- IHC, WB

**Species Specificity:**
- human, mouse

**Cited Species:**
- human, mouse

### Background Information

CHDH (Choline dehydrogenase, mitochondrial) is also named as CDH-CHD and belongs to the GMC oxidoreductase family. CHDH is a member of the glucose-methanol-choline family of oxidoreductases, with each member containing a consensus FAD-binding domain. Many members of this oxidoreductase family are soluble proteins but mammalian CHDH is associated with the inner mitochondrial membrane (Handbook of vitamins, Robert B, 2007). The full length protein (65 kDa) has a transit peptide of 29 amino acid and the mature CHDH is appropriately located in the inner mitochondria membrane (PMID: 12951056). 17356-1-AP can also recognize the 45 kDa isoform X3 of CHDH.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taylor McClatchie</td>
<td>28663388</td>
<td>J Biol Chem</td>
<td>WB</td>
</tr>
<tr>
<td>Johnson Amy R AR</td>
<td>22589281</td>
<td>PLoS One</td>
<td>IHC</td>
</tr>
</tbody>
</table>

### Storage

**Storage:**
- Store at -20ºC. Stable for one year after shipment.

**Storage Buffer:**
- PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting:**
- Aliquoting is unnecessary for -20ºC 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: proteintechn@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 17356-1-AP (CHDH antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human liver cancer tissue slide using 17356-1-AP (CHDH antibody) at dilution of 1:200 (under 10x lens).

Immunohistochemistry of paraffin-embedded human liver cancer tissue slide using 17356-1-AP (CHDH antibody) at dilution of 1:200 (under 40x lens).