

**BDHA1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5553C**

**Specification**

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**BDHA1 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">P08559</a>
Other Accession	<a href="#">P26284</a> , <a href="#">P29804</a> , <a href="#">P35486</a> , <a href="#">Q8HXW9</a> , <a href="#">A7MB35</a> , <a href="#">NP_000275.1</a> , <a href="#">Q6P948</a>
Reactivity	Human
Predicted	Zebrafish, Bovine, Monkey, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43296
Antigen Region	228-255

**BDHA1 Antibody (Center) - Additional Information**

**Gene ID** 5160

**Other Names**

Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, PDHE1-A type I, PDHA1, PHE1A

**Target/Specificity**

This BDHA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 228-255 amino acids from the Central region of human BDHA1.

**Dilution**

WB~~1:1000  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BDHA1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**BDHA1 Antibody (Center) - Protein Information**

**Name** PDHA1

**Synonyms** PHE1A

**Function** The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle.

**Cellular Location**  
Mitochondrion matrix.

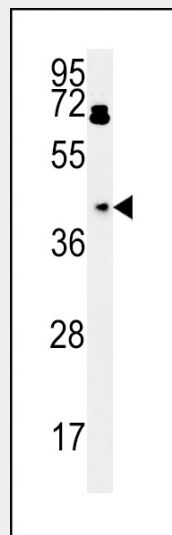
**Tissue Location**  
Ubiquitous.

### BDHA1 Antibody (Center) - Protocols

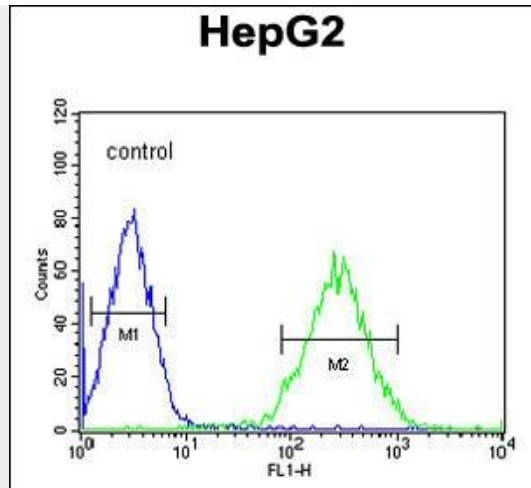
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### BDHA1 Antibody (Center) - Images



BDHA1 Antibody (Center) (Cat. #AP5553c) western blot analysis in HepG2 cell line lysates (15ug/lane). This demonstrates the BDHA1 antibody detected the BDHA1 protein (arrow).



BDHA1 Antibody (Center) (Cat. #AP5553c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **BDHA1 Antibody (Center) - Background**

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO<sub>2</sub>, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex.

### **BDHA1 Antibody (Center) - References**

Glushakova, L.G., et al. Mol. Genet. Metab. 98(3):289-299(2009)  
Joao Silva, M., et al. Eur. J. Pediatr. 168(1):17-22(2009)  
Boichard, A., et al. Mol. Genet. Metab. 93(3):323-330(2008)