10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BDHA1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5553C

Specification

BDHA1 Antibody (Center) - Product Information

Application	**WB, FC,E**
Primary Accession	P08559
Other Accession	P26284, P29804, P35486, Q8HXW9, A7MB35, NP_000275.1, Q6P948
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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

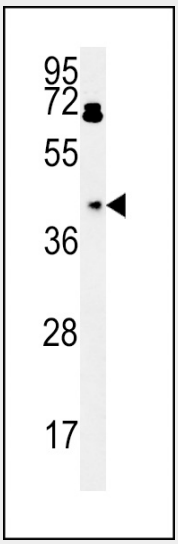
Tissue Location
Ubiquitous.

BDHA1 Antibody (Center) - Protocols

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

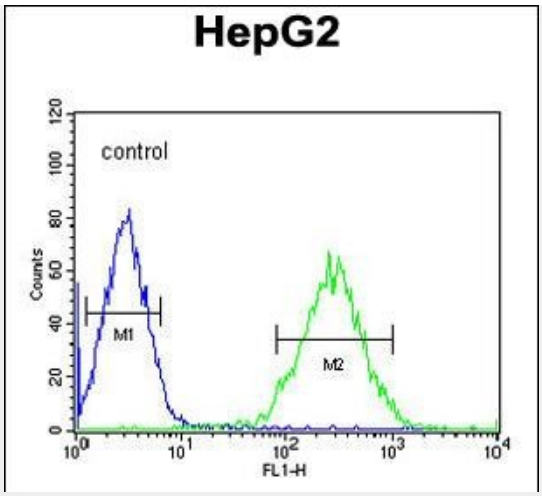
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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(2), 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)