

BDH1 Monoclonal Antibody

Catalog No: YM0059

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: BDH1

Fields: >>Butanoate metabolism;>>Metabolic pathways

Q02338

Q80XN0

Gene Name: BDH1

Protein Name: D-beta-hydroxybutyrate dehydrogenase, mitochondrial

Human Gene Id: 622

Human Swiss Prot

No:

Mouse Gene ld: 71911

Mouse Swiss Prot

No:

Immunogen: Purified recombinant fragment of human BDH1 expressed in E. Coli.

Specificity: BDH1 Monoclonal Antibody detects endogenous levels of BDH1 protein.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

Dilution : WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200

Purification: Affinity purification

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 38kD

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Cell Pathway: Synthesis and degradation of ketone bodies; Butanoate metabolism;

P References : 1. Biochemistry. 1996 Jun 25;35(25):8158-65.

2. Biochemistry. 2000 Oct 3;39(39):11928-38.

3. Proc Natl Acad Sci U S A. 2001 Dec 18;98(26):15089-94.

Background: This gene encodes a member of the short-chain dehydrogenase/reductase gene

family. The encoded protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. The encoded protein catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the two major ketone bodies

produced during fatty acid catabolism. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008],

Function: catalytic activity:(R)-3-hydroxybutanoate + NAD(+) = acetoacetate +

NADH.,enzyme regulation:Requires phosphatidylcholine as an allosteric activator

for enzymatic activity., similarity: Belongs to the short-chain

dehydrogenases/reductases (SDR) family.,subunit:Homotetramer.,

Subcellular Location:

Mitochondrion inner membrane . Mitochondrion matrix .

Expression : Heart, Lung, Ovary,

Sort: 2646

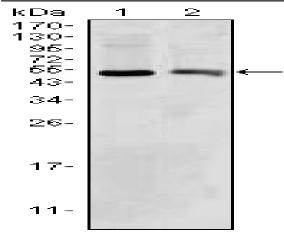
No4: 1

Host: Mouse

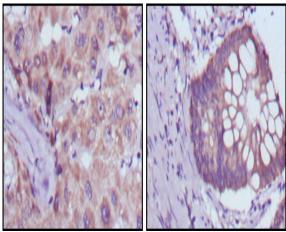
Modifications: Unmodified

Products Images

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Western Blot analysis using BDH1 Monoclonal Antibody against HepG2 (1) and NIH/3T3 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human liver cancer (left) and colorectal cancer tissues (right) with DAB staining using BDH1 Monoclonal Antibody.