

## BACKGROUND

BDH1 (3-hydroxybutyrate dehydrogenase, type 1) is a member of the short-chain dehydrogenase/reductase family. This protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. It catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the two major ketone bodies produced during fatty acid catabolism.<sup>1</sup>

### References:

1. Marks, A.R. et al: J. Biol. Chem. 267:15459-63, 1992

## TECHNICAL INFORMATION

### Source:

BDH1 Antibody is a mouse monoclonal antibody raised against purified recombinant human BDH1-Fc fusion protein expressed in 293 cells.

### Specificity and Sensitivity:

This antibody detects endogenous BDH1 proteins in normal cell lysates without cross-reactivity with other related proteins.

**Storage Buffer:** PBS and 30% glycerol

### Storage:

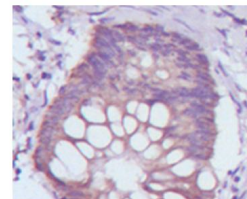
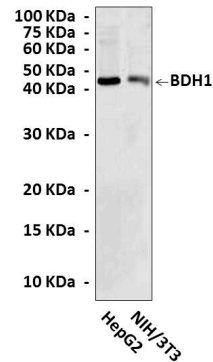
Store at -20°C for at least one year. Store at 4°C for frequent use. Avoid repeated freeze-thaw cycles.

## APPLICATIONS

Application:	*Dilution:
WB	1:500-2000
IP	1:25-50
IHC	1:200
ICC	n/d
FACS	n/d

*\*Optimal dilutions must be determined by end user.*

## QUALITY CONTROL DATA



**Top:** Western Blot detection of BDH1 proteins in HepG2 and NIH3T3 cell lysates using BDH1 Antibody.  
**Bottom:** This antibody stains paraffin-embedded colon cancer tissue in immunohistochemical analysis.

