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BDH1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1356a

Product Information

Application	WB, IHC, E
Primary Accession	Q02338
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	1A5
Isotype	IgG1
Calculated MW	38157
Description	BDH1 (3-hydroxybutyrate dehydrogenase, type 1), it is a member of the short-chain dehydrogenase/reductase gene family. This protien 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.
Immunogen	Purified recombinant fragment of human BDH1 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	622
Other Names	D-beta-hydroxybutyrate dehydrogenase, mitochondrial, BDH, 1.1.1.30, 3-hydroxybutyrate dehydrogenase, Short chain dehydrogenase/reductase family 9C member 1, BDH1, BDH, SDR9C1
Dilution	WB~~1/500 - 1/2000 IHC~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BDH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BDH1 (HGNC:1027)

Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q02337}. Mitochondrion matrix {ECO:0000250|UniProtKB:Q02337}

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.

Images

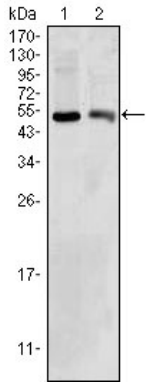

Figure 1: Western blot analysis using BDH1 mouse mAb against HepG2 (1) and NIH/3T3 (2) cell lysate.

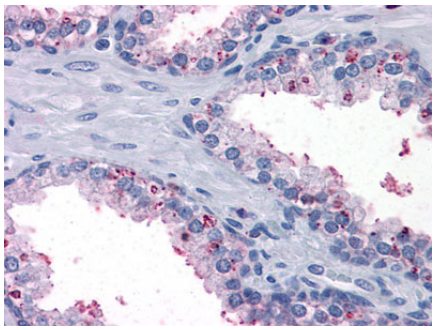

Figure 2: Immunohistochemical analysis of paraffin-embedded human Prostate tissues using anti-BDH1 mouse mAb

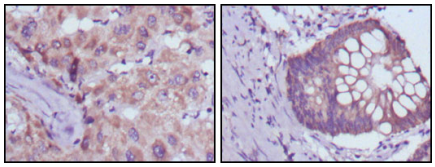

Figure 3: Immunohistochemical analysis of paraffin-embedded human liver cancer (left) and colorectal cancer tissues (right) using BDH1 mouse mAb with DAB staining.

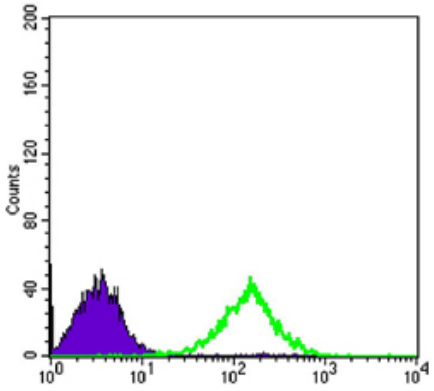

Figure 3: Flow cytometric analysis of Jurkat cells using CD69 mouse mAb (green) and negative control (purple).