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

BDH1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full-length recombinant BDH1.
Catalog # AT1288a

Product Information

Application	WB
Primary Accession	Q02338
Other Accession	BC011964
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4B3
Calculated MW	38157

Additional Information

Gene ID	622
Other Names	D-beta-hydroxybutyrate dehydrogenase, mitochondrial, BDH, 3-hydroxybutyrate dehydrogenase, BDH1, BDH
Target/Specificity	BDH1 (AAH11964, 1 a.a. ~ 343 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	BDH1 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

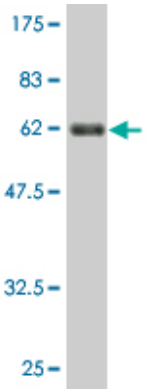
Background

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.

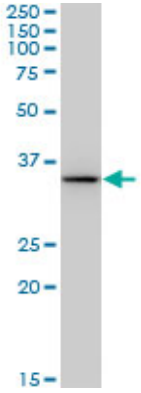
References

The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. Persson B, et al. Chem Biol Interact, 2009 Mar 16. PMID 19027726.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Insight into hepatocellular carcinogenesis at transcriptome level by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver. Xu XR, et al. Proc Natl Acad Sci U S A, 2001 Dec 18. PMID 11752456.(R)-3-hydroxybutyrate dehydrogenase: selective phosphatidylcholine binding by the C-terminal domain. Loeb-Hennard C, et al. Biochemistry, 2000 Oct 3. PMID 11009606.

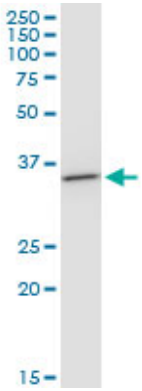
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (63.47 KDa) .



BDH1 monoclonal antibody (M03), clone 4B3. Western Blot analysis of BDH1 expression in Raw 264.7 ((Cat # AT1288a)



BDH1 monoclonal antibody (M03), clone 4B3. Western Blot analysis of BDH1 expression in NIH/3T3((Cat # AT1288a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.