

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2710a**Specification**

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) - Product Information

Application	E
Primary Accession	O9BUT1
Other Accession	NP_064524.3 , 56898 , 69772 (mouse) , 295458 (rat)
Predicted	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	26724

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) - Additional Information**Gene ID** 56898**Other Names**

3-hydroxybutyrate dehydrogenase type 2, 1.1.1.-, 1.1.1.30, Dehydrogenase/reductase SDR family member 6, Oxidoreductase UCPA, R-beta-hydroxybutyrate dehydrogenase, Short chain dehydrogenase/reductase family 15C member 1, BDH2, DHRS6, SDR15C1

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

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

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) - Protein Information**Name** BDH2 {ECO:0000303|PubMed:35150746, ECO:0000312|HGNC:HGNC:32389}**Function**

NAD(H)-dependent dehydrogenase/reductase with a preference for cyclic substrates (By similarity) (PubMed:35150746).

Catalyzes stereoselective conversion of 4-oxo-L-proline to cis-4-hydroxy-L-proline, likely a detoxification mechanism for ketoprolines (PubMed:35150746). Mediates the formation of 2,5-dihydroxybenzoate (2,5-DHBA), a siderophore that chelates free cytoplasmic iron and associates with LCN2, thereby regulating iron transport and homeostasis while protecting cells against free radical-induced oxidative stress. The iron-siderophore complex is imported into mitochondria, providing an iron source for mitochondrial metabolic processes in particular heme synthesis (By similarity). May act as a 3-hydroxybutyrate dehydrogenase (PubMed:16380372).

Cellular Location

Cytoplasm.

Tissue Location

Detected in liver (at protein level).

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) - Images**BDH2 / DHRS6 (aa 92 to 103) Antibody (internal region) - References**

Characterization of human DHRS6, an orphan short chain dehydrogenase/reductase enzyme: a novel, cytosolic type 2 R-beta-hydroxybutyrate dehydrogenase. Guo K, Lukacik P, Papagrigoriou E, Meier M, Lee WH, Adamski J, Oppermann U. J Biol Chem. 2006 Apr 14;281(15):10291-7. Epub 2005 Dec 27. PMID: 16380372