

**DHRS6 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12766b****Specification**

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**DHRS6 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q9BUT1](#)**DHRS6 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 56898**Other Names**

3-hydroxybutyrate dehydrogenase type 2, 111-, Dehydrogenase/reductase SDR family member 6, Oxidoreductase UCPA, R-beta-hydroxybutyrate dehydrogenase, BDH2, DHRS6

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DHRS6 Antibody (C-term) Blocking peptide - 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:<a href="http://www.uniprot.org/citations/35150746" target="\_blank">35150746</a>). Catalyzes stereoselective conversion of 4-oxo-L-proline to cis-4-hydroxy-L-proline, likely a detoxification mechanism for ketoprolines (PubMed:<a href="http://www.uniprot.org/citations/35150746" target="\_blank">35150746</a>). 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:<a href="http://www.uniprot.org/citations/16380372" target="\_blank">16380372</a>).

**Cellular Location**

Cytoplasm.

**Tissue Location**

Detected in liver (at protein level).

**DHRS6 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**DHRS6 Antibody (C-term) Blocking peptide - Images****DHRS6 Antibody (C-term) Blocking peptide - Background**

Dehydrogenase that mediates the formation of 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin and associates with LCN2, thereby playing a key role in iron homeostasis and transport. Also acts as a 3-hydroxybutyrate dehydrogenase (By similarity).

**DHRS6 Antibody (C-term) Blocking peptide - References**

Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009) :Guo, K., et al. J. Biol. Chem. 281(15):10291-10297(2006)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)Hu, R.M., et al. Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548(2000)