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HSD17B4 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP12516c

Specification

HSD17B4 Antibody (Center) Blocking peptide - Product Information

Primary Accession P51659

HSD17B4 Antibody (Center) Blocking peptide - Additional Information

Gene ID 3295

Other Names
Peroxisomal multifunctional enzyme type 2, MFE-2, 17-beta-hydroxysteroid dehydrogenase 4, 17-beta-HSD 4, D-bifunctional protein, DBP, Multifunctional protein 2, MPF-2, (3R)-hydroxyacyl-CoA dehydrogenase, 111n12, Enoyl-CoA hydratase 2, 3-alpha, 7-alpha, 12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase, HSD17B4, EDH17B4

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.

HSD17B4 Antibody (Center) Blocking peptide - Protein Information

Name HSD17B4 (HGNC:5213)

Synonyms EDH17B4, SDR8C1

Function
Bifunctional enzyme acting on the peroxisomal fatty acid beta-oxidation pathway. Catalyzes two of the four reactions in fatty acid degradation: hydration of 2-enoyl-CoA (trans-2-enoyl-CoA) to produce (3R)-3-hydroxyacyl-CoA, and dehydrogenation of (3R)-3- hydroxyacyl-CoA to produce 3-ketoacyl-CoA (3-oxoacyl-CoA), which is further metabolized by SCPx. Can use straight-chain and branched-chain fatty acids, as well as bile acid intermediates as substrates.

Cellular Location
Peroxisome.

Tissue Location
Present in many tissues with highest concentrations in liver, heart, prostate and testis

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HSD17B4 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

HSD17B4 Antibody (Center) Blocking peptide - Images

HSD17B4 Antibody (Center) Blocking peptide - Background

The protein encoded by this gene is a bifunctional enzymethat is involved in the peroxisomal beta-oxidation pathway forfatty acids. It also acts as a catalyst for the formation of3-ketoacyl-CoA intermediates from both straight-chain and2-methyl-branched-chain fatty acids. Defects in this gene thataffect the peroxisomal fatty acid beta-oxidation activity are acause of D-bifunctional protein deficiency (DBPD). An apparentpseudogene of this gene is present on chromosome 8. [provided byRefSeq].

HSD17B4 Antibody (Center) Blocking peptide - References

Canzian, F., et al. Hum. Mol. Genet. 19(19):3873-3884(2010)Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Kashiwayama, Y., et al. J. Biol. Chem. 285(34):26315-26325(2010)Pierce, S.B., et al. Am. J. Hum. Genet. 87(2):282-288(2010)Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)