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

HSD17B4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12516c

Specification

HSD17B4 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P51659
Other Accession	NP_000405.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**79686**
Antigen Region	**341-370**

HSD17B4 Antibody (Center) - 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

Target/Specificity
This HSD17B4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 341-370 amino acids from the Central region of human HSD17B4.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HSD17B4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HSD17B4 Antibody (Center) - Protein Information

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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.

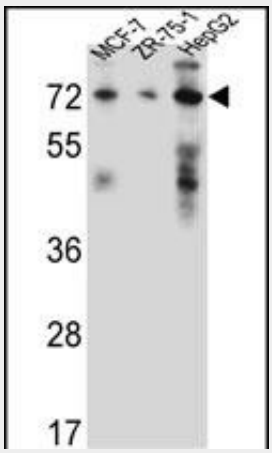
Tissue Location
Present in many tissues with highest concentrations in liver, heart, prostate and testis

HSD17B4 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HSD17B4 Antibody (Center) - Images



HSD17B4 Antibody (Center) (Cat. #AP12516c) western blot analysis in MCF-7,ZR-75-1,HepG2 cell line lysates (35ug/lane).This demonstrates the HSD17B4 antibody detected the HSD17B4 protein (arrow).

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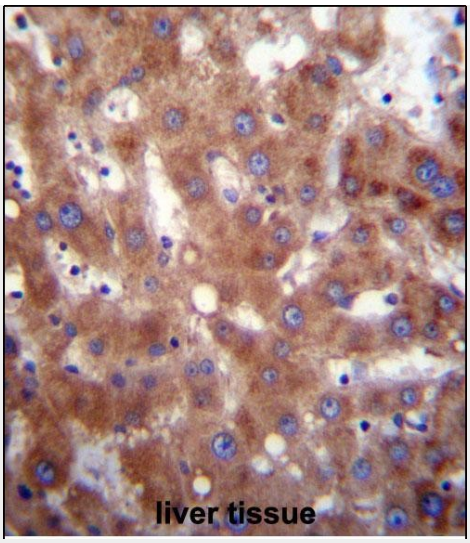

HSD17B4 Antibody (Center) (Cat. #AP12516c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of HSD17B4 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

HSD17B4 Antibody (Center) - Background

The protein encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in this gene that affect the peroxisomal fatty acid beta-oxidation activity are a cause of D-bifunctional protein deficiency (DBPD). An apparent pseudogene of this gene is present on chromosome 8. [provided by RefSeq].

HSD17B4 Antibody (Center) - 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)