

**HSD17B4 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12516c****Specification**

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**HSD17B4 Antibody (Center) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">P51659</a>
Other Accession	<a href="#">NP_000405.1</a>
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**

**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.

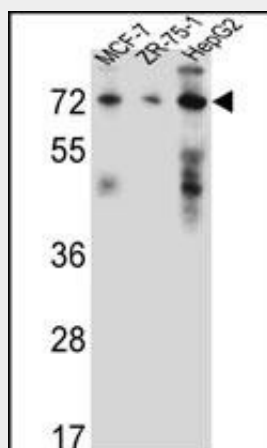
**Tissue Location**  
Present in many tissues with highest concentrations in liver, heart, prostate and testis

### HSD17B4 Antibody (Center) - Protocols

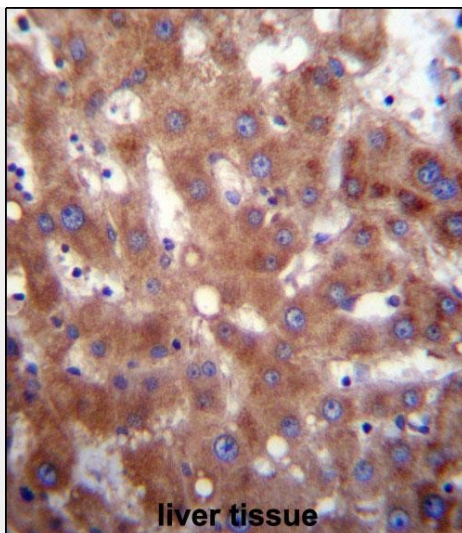
Provided below are standard protocols that you may find useful for product applications.

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



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)