

**HSD17B8 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14782****Specification**

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**HSD17B8 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O92506</a>
Other Accession	<a href="#">NM_014234</a> , <a href="#">NP_055049</a>
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29kDa KDa

**HSD17B8 antibody - N-terminal region - Additional Information****Gene ID 7923**

Alias Symbol **D6S2245E, FABG, FABGL, H2-KE6, HKE6, KE6, RING2, SDR30C1, dJ1033B10.9**

**Other Names**

Estradiol 17-beta-dehydrogenase 8, 1.1.1.62, 17-beta-hydroxysteroid dehydrogenase 8, 17-beta-HSD 8, 3-oxoacyl-[acyl-carrier-protein] reductase, 1.1.1.-, Protein Ke6, Ke-6, Really interesting new gene 2 protein, Testosterone 17-beta-dehydrogenase 8, 1.1.1.239, HSD17B8, FABGL, HKE6, RING2

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-HSD17B8 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

HSD17B8 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**HSD17B8 antibody - N-terminal region - Protein Information**

**Name** HSD17B8

**Synonyms** FABGL, HKE6, RING2, SDR30C1

**Function**

Required for the solubility and assembly of the heterotetramer 3-ketoacyl-[acyl carrier protein] (ACP) reductase functional complex (KAR or KAR1) that forms part of the mitochondrial fatty acid synthase (mtFAS). Alpha-subunit of the KAR complex that acts as a scaffold protein required for

the stability of carbonyl reductase type-4 (CBR4, beta-subunit of the KAR complex) and for its 3-ketoacyl- ACP reductase activity, thereby participating in mitochondrial fatty acid biosynthesis. Catalyzes the NAD-dependent conversion of (3R)-3- hydroxyacyl-CoA into 3-ketoacyl-CoA (3-oxoacyl-CoA) with no chain length preference; this enzymatic activity is not needed for the KAR function (PubMed:<a href="http://www.uniprot.org/citations/19571038" target="\_blank">19571038</a>, PubMed:<a href="http://www.uniprot.org/citations/25203508" target="\_blank">25203508</a>, PubMed:<a href="http://www.uniprot.org/citations/30508570" target="\_blank">30508570</a>). Prefers (3R)-3-hydroxyacyl-CoA over (3S)-3-hydroxyacyl-CoA and displays enzymatic activity only in the presence of NAD(+) (PubMed:<a href="http://www.uniprot.org/citations/19571038" target="\_blank">19571038</a>). Cooperates with enoyl-CoA hydratase 1 in mitochondria, together they constitute an alternative route to the auxiliary enzyme pathways for the breakdown of Z-PUFA (cis polyunsaturated fatty acid) enoyl-esters (Probable) (PubMed:<a href="http://www.uniprot.org/citations/30508570" target="\_blank">30508570</a>). NAD-dependent 17-beta-hydroxysteroid dehydrogenase with highest activity towards estradiol (17beta-estradiol or E2). Has very low activity towards testosterone and dihydrotestosterone (17beta-hydroxy-5alpha-androstan-3-one). Primarily an oxidative enzyme, it can switch to a reductive mode determined in the appropriate physiologic milieu and catalyze the reduction of estrone (E1) to form biologically active 17beta-estradiol (PubMed:<a href="http://www.uniprot.org/citations/17978863" target="\_blank">17978863</a>).

### Cellular Location

Mitochondrion matrix

### Tissue Location

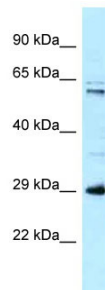
Widely expressed, particularly abundant in prostate, placenta and kidney (PubMed:17978863). Expressed at protein level in various tissues like brain, cerebellum, heart, lung, kidney, ovary, testis, adrenals and prostate (PubMed:30508570)

## HSD17B8 antibody - N-terminal 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](#)

## HSD17B8 antibody - N-terminal region - Images



WB Suggested Anti-HSD17B8 Antibody Titration: 1.0 µg/ml  
Positive Control: RPMI-8226 Whole CellHSD17B8 is supported by BioGPS gene expression data to be expressed in RPMI 8226

#### **HSD17B8 antibody - N-terminal region - References**

Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Mungall A.J.,et al.Nature 425:805-811(2003).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Ando A.,et al.Genomics 35:600-602(1996).

Ohno S.,et al.Mol. Cell. Biochem. 309:209-215(2008).