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

Specification

HSD17B8 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q92506
Other Accession	NM_014234, NP_055049
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:19571038, PubMed:25203508, PubMed:30508570). Prefers (3R)-3-hydroxyacyl-CoA over (3S)-3-hydroxyacyl-CoA and displays enzymatic activity only in the presence of NAD(+) (PubMed:19571038). 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:30508570). 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:17978863).

Cellular Location
Mitochondrion matrix

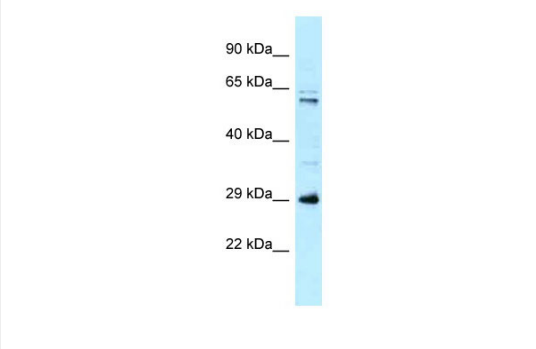
Tissue Location
Widely expressed, particularly abundant in prostate, placenta and kidney (PubMed:17978863). Expressed at protein level in various tissues like brain, cerebellum, heart, lung, kidney, ovary, testis, adrenals and prostate (PubMed:30508570)

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 Cytomety
- Cell Culture

HSD17B8 antibody - N-terminal region - Images



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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).