

Anti-HSD17B6 Antibody

Catalog # ABO10711

Product Information

Application	WB, IHC-P
Primary Accession	O14756
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for 17-beta-hydroxysteroid dehydrogenase type 6(HSD17B6) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8630
Other Names	17-beta-hydroxysteroid dehydrogenase type 6, 17-beta-HSD 6, 17-beta-HSD6, 1.1.1.105, 1.1.1.239, 1.1.1.62, 3-alpha->beta-hydroxysteroid epimerase, 3-alpha->beta-HSE, Oxidative 3-alpha hydroxysteroid dehydrogenase, Short chain dehydrogenase/reductase family 9C member 6, HSD17B6, RODH, SDR9C6
Calculated MW	35966
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Microsome membrane ; Peripheral membrane protein ; Lumenal side . Early endosome membrane ; Peripheral membrane protein ; Lumenal side .
Tissue Specificity	Detected in liver and prostate (at protein level). Detected in adult liver, lung, brain, placenta, prostate, adrenal gland, testis, mammary gland, spleen, spinal cord and uterus. Detected in caudate nucleus, and at lower levels in amygdala, corpus callosum, hippocampus, substantia nigra and thalamus. Detected in fetal lung, liver and brain. .
Source	Eukaryota
Protein Name	17-beta-hydroxysteroid dehydrogenase type 6(17-beta-HSD 6/17-beta-HSD6)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HSD17B6(300-317aa SLADYILTRSWPKPAQAV).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.

Protein Information

Name	HSD17B6
Synonyms	RODH, SDR9C6
Function	NAD-dependent oxidoreductase with broad substrate specificity that shows both oxidative and reductive activity (in vitro). Has 17- beta-hydroxysteroid dehydrogenase activity towards various steroids (in vitro). Converts 5-alpha-androstan-3-alpha,17-beta-diol to androsterone and estradiol to estrone (in vitro). Has 3-alpha-hydroxysteroid dehydrogenase activity towards androsterone (in vitro). Has retinol dehydrogenase activity towards all-trans-retinol (in vitro). Can convert androsterone to epi-androsterone. Androsterone is first oxidized to 5-alpha-androstane-3,17-dione and then reduced to epi- androsterone. Can act on both C-19 and C-21 3-alpha-hydroxysteroids.
Cellular Location	Microsome membrane; Peripheral membrane protein; Lumenal side. Early endosome membrane; Peripheral membrane protein; Lumenal side
Tissue Location	Detected in liver and prostate (at protein level). Detected in adult liver, lung, brain, placenta, prostate, adrenal gland, testis, mammary gland, spleen, spinal cord and uterus. Detected in caudate nucleus, and at lower levels in amygdala, corpus callosum, hippocampus, substantia nigra and thalamus. Detected in fetal lung, liver and brain.

Background

Hydroxysteroid 17-beta dehydrogenase 6 is an enzyme that in humans is encoded by the HSD17B6 gene. The protein encoded by this gene has both oxidoreductase and epimerase activities and is involved in androgen catabolism. Baker ME et al point out expression of 17beta-HSDs had an important role in the early evolution of the physiological response to androgens and estrogens. Biswas and Russell concluded that 17beta-HSD6 and RoDH play opposing roles in androgen action; 17beta-HSD6 inactivates 3alpha-adiol by conversion to androsterone and RoDH activates 3alpha-adiol by conversion to dihydrotestosterone. The synthesis of an active steroid hormone by back conversion of an inactive metabolite represents a potentially important mechanism by which the steady state level of a transcriptional effector can be regulated.

Images

Anti- HSD17B6 antibody, ABO10711, Western blottingAll lanes: Anti HSD17B6 (ABO10711) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: MCF-7 Whole Cell Lysate at 40ugPredicted bind size:



35KDObserved bind size: 35KD

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