

HSD17B7 Rabbit pAb

Catalog # AP98089

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P56937
Other Accession	P56937
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38206
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HSD17B7
Epitope Specificity	31-130/341
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the short-chain dehydrogenases/reductases (SDR) family. ERG27 subfamily.
Post-translational modifications	Phosphorylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HSD17B7 encodes an enzyme that functions both as a 17-beta-hydroxysteroid dehydrogenase (EC 1.1.1.62) in the biosynthesis of sex steroids and as a 3-ketosteroid reductase (EC 1.1.1.270) in the biosynthesis of cholesterol (Marijanovic et al., 2003 [PubMed 12829805]).[supplied by OMIM, May 2010]

Additional Information

Gene ID	51478
Other Names	PRAP; SDR37C1; ERG27; DHB7_HUMAN; HSD17B7; 17-beta-hydroxysteroid dehydrogenase 7 (17-beta-HSD 7); 3-keto-steroid reductase; Dihydrotestosterone oxidoreductase; Estradiol 17-beta-dehydrogenase 7; Short chain dehydrogenase/reductase family 37C member 1; 17HSD7; DHB7_MOUSE; DHB7_RAT; PRL receptor-associated protein (PRAP); hydroxysteroid 17-beta dehydrogenase 7; hydroxysteroid (17-beta) dehydrogenase 7; short chain dehydrogenase/reductase family 37C, member 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HSD17B7
Synonyms	17HSD7 {ECO:0000303 PubMed:12732193}, SD
Function	Bifunctional enzyme involved in steroid-hormone metabolism and cholesterol biosynthesis (PubMed:11165030, PubMed:12574203, PubMed:12732193, PubMed:12829805, PubMed:19772289, PubMed:20659585). Catalyzes the NADP(H)-dependent reduction of estrogens and androgens and regulates the biological potency of these steroids. Converts estrone (E1) to a more potent estrogen, 17beta-estradiol (E2) (PubMed:12574203, PubMed:12732193, PubMed:19772289). Converts dihydrotestosterone (DHT) to its inactive form 5a-androstane-3b,17b- diol (PubMed:12574203, PubMed:12732193, PubMed:19772289). Converts moderately progesterone to 3beta-hydroxypregn-4-ene-20-one, leading to its inactivation (PubMed:12574203, PubMed:12732193). Additionally, participates in the post-squalene cholesterol biosynthesis, as a 3- ketosteroid reductase (PubMed:11165030, PubMed:12829805, PubMed:20659585).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein
Tissue Location	Highly expressed in adrenal gland, liver, lung and thymus. Expressed in breast, ovaries, pituitary gland, pregnant uterus, prostate, kidney, lymph node, small intestine, spinal cord and trachea Weakly expressed in all other tissues tested

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.