SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-HSD3B2 antibody

SL16552R

Product Name:	HSD3B2
Chinese Name:	2型肾上腺皮质增生症蛋白抗体
Alias:	3 beta HSD adrenal and gonadal type; 3 beta HSD II; 3 beta HSD type II; 3 beta hydroxy 5 ene steroid dehydrogenase; 3 beta hydroxy Delta(5) steroid dehydrogenase; 3 beta hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2; 3 beta-hydroxysteroid dehydrogenase type II, delta 5-delta 4-isomerase type II, 3 beta-HSD type II; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type II; 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2; 3-beta-HSD II; 3-beta-hydroxy-5-ene steroid dehydrogenase; 3-beta-hydroxy-Delta(5)-steroid dehydrogenase; 3BHS2_HUMAN; ADRENAL HYPERPLASIA II; beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2; delta 5 delta 4 isomerase type II; Delta-5-3-ketosteroid isomerase; HSD3B; HSD3B2; HSDB; HSDB3B; hydroxy delta 5 steroid dehydrogenase, 3 beta and steroid delta isomerase 2; Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2; Progesterone reductase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Dog,Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	40kDa
Cellular localization:	cytoplasmicMitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HSD3B2:
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. **Function:** 3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic system plays a crucial role in the biosynthesis of all classes of hormonal steroids. **Subunit:** Expressed in adrenal gland, testis and ovary. **Subcellular Location:** Endoplasmic reticulum membrane. Mitochondrion membrane. **Tissue Specificity:** Defects in HSD3B2 are the cause of adrenal hyperplasia type 2 (AH2) [MIM:201810]. AH2 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: 'salt wasting' (SW, the most severe type), 'simple virilizing' (SV, less severely affected patients), with normal aldosterone biosynthesis, 'non-classic form' or late onset (NC or LOAH), and 'cryptic' (asymptomatic). In AH2, virilization is much less marked or does not occur. AH2 is frequently lethal in early life. Note=Mild HSD3B2 deficiency in hyperandrogenic females is associated with characteristic traits of polycystic ovary syndrome, such as insulin resistance and luteinizing hormon hypersecretion. **DISEASE:** Defects in HSD3B2 are the cause of adrenal hyperplasia type 2 (AH2) [MIM:201810]. AH2 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: 'salt wasting' (SW, the most severe type), 'simple virilizing' (SV, less severely affected patients), with normal aldosterone biosynthesis, 'non-classic form' or late onset (NC or LOAH), and 'cryptic' (asymptomatic). In AH2, virilization is much less marked or does not occur. AH2 is frequently lethal in early life. Note=Mild HSD3B2 deficiency in hyperandrogenic females is associated with

characteristic traits of polycystic ovary syndrome, such as insulin resistance and luteinizing hormon hypersecretion

Similarity:
Belongs to the 3-beta-HSD family.

SWISS:
P14060

Gene ID:
3283

Database links:

Entrez Gene: 3283 Huma

Entrez Gene: 3284 Human

Entrez Gene: 15492 Mouse

Entrez Gene: 15493 Mouse

Entrez Gene: 15494 Mouse

Entrez Gene: 29632 Rat

Entrez Gene: 360348 Rat

Entrez Gene: 682974 Rat

Omim: 201810 Human

SwissProt: P14060 Human

SwissProt: P26439 Human

SwissProt: O35469 Mouse

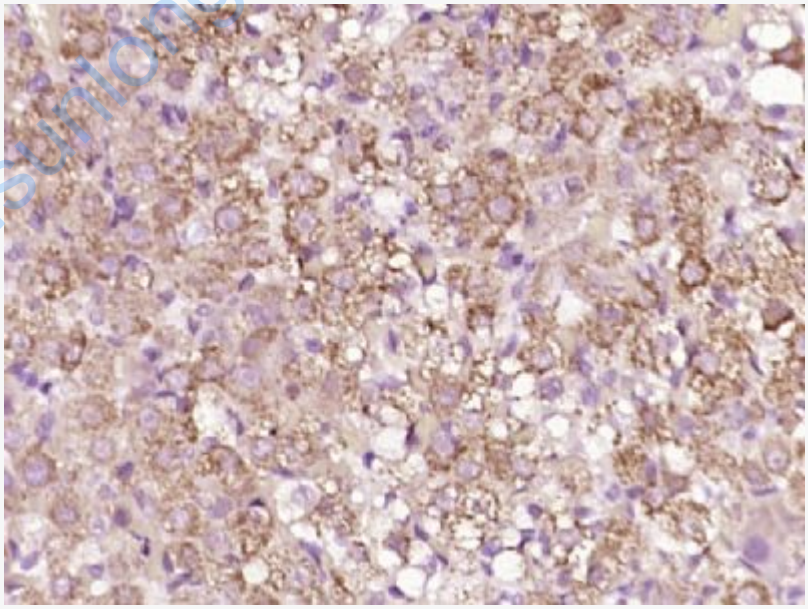
SwissProt: P24815 Mouse

SwissProt: P26149 Mouse

SwissProt: P26150 Mouse

SwissProt: P22071 Rat

SwissProt: P22072 Rat

	SwissProt: Q62878 Rat Unigene: 364941 Human Unigene: 654399 Human Unigene: 140811 Mouse Unigene: 14435 Mouse Unigene: 158717 Mouse Unigene: 482364 Mouse Unigene: 109394 Rat Unigene: 128814 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (rat ovary tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C

	for 30min; Antibody incubation with (HSD3B2) Polyclonal Antibody, Unconjugated (SL16552R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.