

## Rabbit anti-Human, Rat HSD3B2 Polyclonal Antibody | anti-HSD3B2 antibody

HSD3B2 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                       |
|-----------|--------|------------|------------------------------------------------------------------------------------|
| AAA326404 | Rabbit | Human, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

HSD3B2; Polyclonal Antibody; HSD3B2 Antibody; 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; 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; SDR11E2; short chain dehydrogenase/reductase family 11E; member 2; Steroid Delta-isomerase; anti-HSD3B2 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                   |
| Reactivity                                       | Human, Rat                                                                                               |
| Clonality                                        | Polyclonal                                                                                               |
| Isotype                                          | IgG                                                                                                      |
| Specificity                                      | HSD3B2 antibody detects endogenous levels of total HSD3B2                                                |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.            |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.            |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                   |
| Sequence Length                                  | 372                                                                                                      |
| Applicable Applications for anti-HSD3B2 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                        | A synthesized peptide derived from human HSD3B2                                                          |
| Subcellular Location                             | Endoplasmic Reticulum; Mitochondrion                                                                     |
| Tissue Specificity                               | Expressed in adrenal gland, testis and ovary.                                                            |
| Predicted Cross Reactivity                       | Horse                                                                                                    |
| Similarity                                       | Horse (86%)                                                                                              |
| Conjugation                                      | Unconjugated                                                                                             |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                        |

IMAGES



IF (Immunofluorescence)

AAA326404 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326404 at 1/100 staining RAT testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using HSD3B2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HSD3B2 antibody

Description: The protein encoded by this gene is a bifunctional enzyme that catalyzes the oxidative conversion of delta(5)-ene-3-beta-hydroxy steroid, and the oxidative conversion of ketosteroids. It plays a crucial role in the biosynthesis of all classes of hormonal steroids. This gene is predominantly expressed in the adrenals and the gonads. Mutations in this gene are associated with 3-beta-hydroxysteroid dehydrogenase, type II, deficiency. Alternatively spliced transcript variants have been found for this gene.

Function: 3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta5-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.

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

NCBI AND UNIPROT INFORMATION

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| NCBI GI #                        | 4504509                                                                      |
| NCBI GeneID                      | 3284                                                                         |
| NCBI Accession #                 | NP_000189.1                                                                  |
| NCBI GenBank Nucleotide #        | NM_000198.3                                                                  |
| UniProt Accession #              | P26439; Q16010; Q53GD4; Q6AI10; Q6LDB9; Q99890; Q9UD08; A2RRA5               |
| Molecular Weight                 | Observed: 42 kDa<br>Predicted: 43 kDa                                        |
| NCBI Official Full Name          | 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2             |
| NCBI Official Synonym Full Names | hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2 |
| NCBI Official Symbol             | HSD3B2                                                                       |
| NCBI Official Synonym Symbols    | HSDB; HSD3B; SDR11E2                                                         |
| NCBI Protein Information         | 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2             |
| UniProt Protein Name             | 3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase type 2             |
| UniProt Gene Name                | HSD3B2                                                                       |
| UniProt Synonym Gene Names       | HSDB3B; 3-beta-HSD II                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/hsd3b2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326404>