



## Rabbit Anti-SRD5A1 antibody

SL11308R

|                               |  |
|-------------------------------|--|
| <b>Product Name:</b>          | SRD5A1   |
| <b>Chinese Name:</b>          | 类固醇5 $\alpha$ 还原酶1抗体(5 $\alpha$ -Reductase 1)  |
| <b>Alias:</b>                 | 3-oxo-5-alpha-steroid 4-dehydrogenase 1; SR type 1; Steroid 5-alpha-reductase 1; S5AR 1; S5A1_HUMAN.   |
| <b>Organism Species:</b>      | Rabbit   |
| <b>Clonality:</b>             | Polyclonal   |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Horse,   |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 29kDa  |
| <b>Cellular localization:</b> | cytoplasmicThe cell membrane   |
| <b>Form:</b>                  | Lyophilized or Liquid  |
| <b>Concentration:</b>         | 1mg/ml   |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human SRD5A1:101-200/259   |
| <b>Lsotype:</b>               | IgG  |
| <b>Purification:</b>          | affinity purified by Protein A   |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| <b>Storage:</b>               | 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.  |
| <b>PubMed:</b>                | <a href="#">PubMed</a>   |
| <b>Product Detail:</b>        | Steroid 5 $\alpha$ -Reductase is an important enzyme in androgen physiology because it catalyzes the conversion of testosterone into the more potent 5 $\alpha$ -dihydro-testosterone, which mediates androgen effects on target tissues. The enzyme exists as two isoforms: type 1, which is expressed mainly in the skin; and type 2, which is expressed mainly in the prostate. In cultured human skin cells, 5 $\alpha$ -Reductase 1 shows heterogeneity of protein, and has different levels of transcriptional and translational expression. 5 $\alpha$ -Reductase 1 is expressed in all portions of the hair follicle, whereas 5 $\alpha$ -Reductase 2 is |

expressed only in mesenchymal portions. In addition, 5 $\alpha$ -Reductase 1 is mainly expressed in human breast carcinoma and may play a role in the in situ production and actions of the potent androgen 5 $\alpha$ -dihydrotestosterone, including inhibition of cancer cell proliferation in hormone-dependent human breast carcinoma. The 5 $\alpha$ -Reductase-3 $\alpha$ -hydroxysteroid dehydrogenase complex is present in the human brain, suggesting that the complex may be involved in the synthesis of neuroactive steroids or the catabolism of neurotoxic steroids.

**Function:**

Converts testosterone into 5- $\alpha$ -dihydrotestosterone and progesterone or corticosterone into their corresponding 5- $\alpha$ -3-oxosteroids. It plays a central role in sexual differentiation and androgen physiology.

**Subcellular Location:**

Microsome membrane; Multi-pass membrane protein, Endoplasmic reticulum membrane; Multi-pass membrane protein (Potential).

**Tissue Specificity:**

Liver and prostate (at a low level).

**Similarity:**

Belongs to the steroid 5- $\alpha$  reductase family.

**SWISS:**

P18405

**Gene ID:**

6715

**Database links:**

[Entrez Gene: 614612](#) Cow

[Entrez Gene: 403716](#) Dog

[Entrez Gene: 6715](#) Human

[Entrez Gene: 78925](#) Mouse

[Entrez Gene: 24950](#) Rat

[Omim: 184753](#) Human

[SwissProt: A5PJS2](#) Cow

[SwissProt: P18405](#) Human

[SwissProt: Q68FF9](#) Mouse

[SwissProt: P24008](#) Rat

[Unigene: 552](#) Human

[Unigene: 451912](#) Mouse

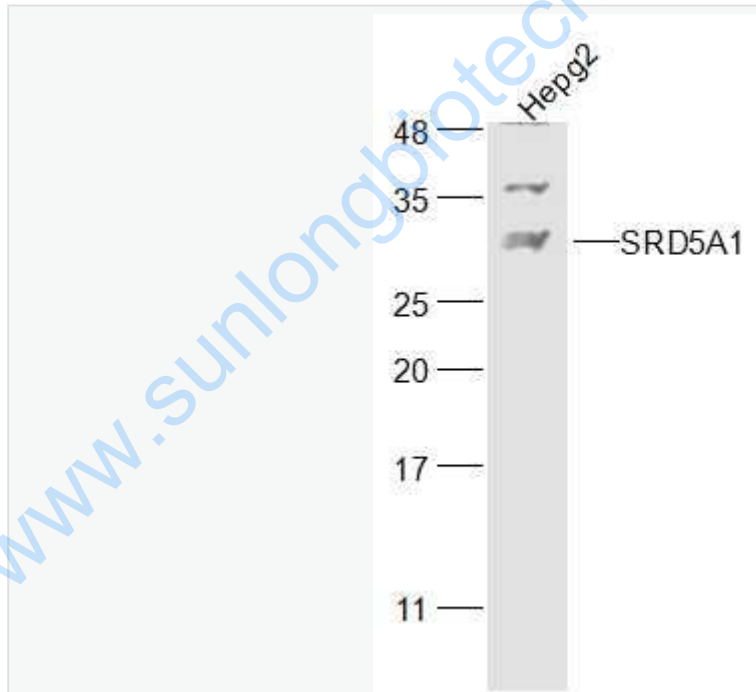
[Unigene: 483181](#) Mouse

[Unigene: 4620](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Sample:

Hepg2(Human) Cell Lysate at 30 ug

Primary: Anti-SRD5A1 (SL11308R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

|  |                                   |
|--|-----------------------------------|
|  | <p>Predicted band size: 29 kD</p> |
|--|-----------------------------------|

|  |                                  |
|--|----------------------------------|
|  | <p>Observed band size: 29 kD</p> |
|--|----------------------------------|

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