

## 类固醇 5 $\alpha$ 还原酶 1 抗体(5 $\alpha$ -Reductase 1)

产品货号： mlR21887

英文名称： SRD5A1

中文名称： 类固醇 5  $\alpha$  还原酶 1 抗体(5  $\alpha$  -Reductase 1)

别 名： 3-oxo-5-alpha-steroid 4-dehydrogenase 1; SR type 1; Steroid 5-alpha-reductase 1; S5AR 1; S5A1\_HUMAN.

研究领域： 肿瘤 细胞生物 神经生物学 信号转导 转录调节因子

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

Not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 29kDa

细胞定位： 细胞浆 细胞膜

性 状： Lyophilized or Liquid

浓 度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human SRD5A1:121-220/259

亚 型： IgG

**纯化方法：** affinity purified by Protein A

**储 存 液：** 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

**保存条件：** 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

**产品介绍：** 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

**Important Note:**

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

产品图片

