



Rabbit Anti-SRD5A1 antibody

SL21887R

Product Name:	SRD5A1
Chinese Name:	类固醇5 α 还原酶1抗体(5 α -Reductase 1)
Alias:	3-oxo-5-alpha-steroid 4-dehydrogenase 1; SR type 1; Steroid 5-alpha-reductase 1; S5AR 1; S5A1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
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:	29kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SRD5A1:121-220/259
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:	Steroid 5 α -Reductase is an important enzyme in androgen physiology because it catalyzes the conversion of testosterone into the more potent 5 α -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 α -Reductase 1 shows heterogeneity of protein, and has different levels of transcriptional and translational expression. 5 α -

Reductase 1 is expressed in all portions of the hair follicle, whereas 5 α -Reductase 2 is expressed only in mesenchymal portions. In addition, 5 α -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 α -dihydrotestosterone, including inhibition of cancer cell proliferation in hormone-dependent human breast carcinoma. The 5 α -Reductase-3 α -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- α -dihydrotestosterone and progesterone or corticosterone into their corresponding 5- α -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- α 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

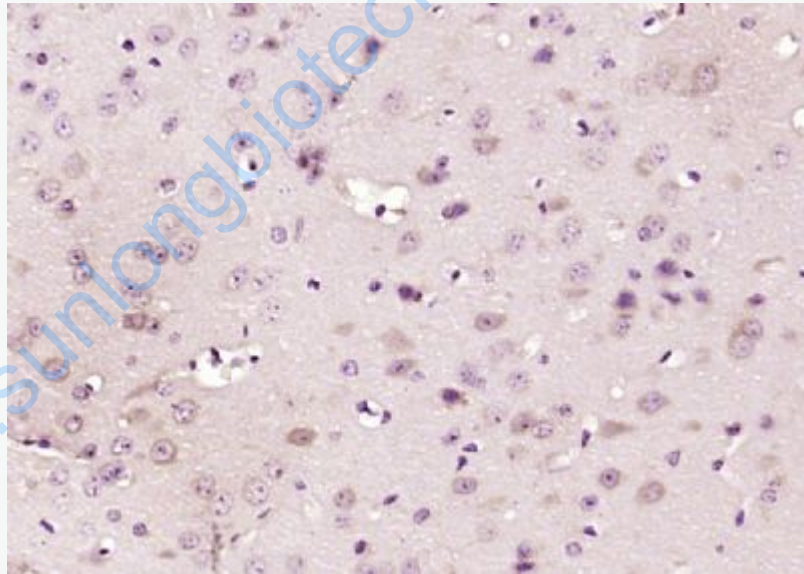
[Unigene: 483181](#) Mouse

[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:



Paraformaldehyde-fixed, paraffin embedded (mouse brain); 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 (SRD5A1) Polyclonal Antibody, Unconjugated (SL21887R) at 1:200 overnight at 4°C, followed by operating according to SP

	Kit(Rabbit) (sp-0023) instructions and DAB staining.
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