

# SRD5A1 Antibody Biotin Conjugated

Catalog No: #C01104B

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	SRD5A1 Antibody Biotin Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from human SRD5A1
Conjugates	Biotin
Target Name	SRD5A1
Other Names	3-oxo-5-alpha-steroid 4-dehydrogenase 1; SR type 1; Steroid 5-alpha-reductase 1; S5AR 1; S5A1_HUMAN.
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Storage	Store at 4C for 12 months.

## Application Details

Western blotting: 1:100-1000

## Background

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.