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Datasheet for ABIN1390500

**anti-SRD5A1 antibody (Alexa Fluor 647)**

## Overview

Quantity:	100 µL
Target:	SRD5A1
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SRD5A1 antibody is conjugated to Alexa Fluor 647
Application:	Western Blotting (WB)

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SRD5A1
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Sheep
Predicted Reactivity:	Mouse,Rat,Dog,Horse,Chicken
Purification:	Purified by Protein A.

## Target Details

Target:	SRD5A1
Alternative Name:	Srd5a1 ( <a href="#">SRD5A1 Products</a> )
Background:	Synonyms: 3-oxo-5-alpha-steroid 4-dehydrogenase 1, SR type 1, Steroid 5-alpha-reductase 1, S5AR 1, S5A1_HUMAN.

## Target Details

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.

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#), [Steroid Hormone Biosynthesis](#), [Response to Growth Hormone Stimulus](#), [C21-Steroid Hormone Metabolic Process](#)

## Application Details

Application Notes: IF(IHC-P) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1  $\mu$ g/ $\mu$ L

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months