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Anti-SRD5A1 Antibody

Catalog # AP51995

Product Information

Application	WB
Primary Accession	P18405
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29459

Additional Information

Gene ID	6715
Other Names	3-oxo-5-alpha-steroid 4-dehydrogenase 1; SR type 1; Steroid 5-alpha-reductase 1; S5AR 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SRD5A1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

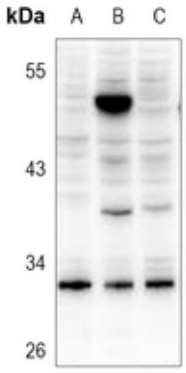
Name	SRD5A1 (HGNC:11284)
Function	Catalyzes the irreversible stereospecific reduction of the delta 4,5 bond (double bond between carbons 4 and 5) of various 3-oxo steroids (3-keto steroids) producing their 5alpha dihydro-3-oxo forms (PubMed:2339109, PubMed:23685396). Converts testosterone into 5-alpha- dihydrotestosterone (DHT), a more potent androgen as it is the preferred ligand for androgen receptor (AR) transactivation, making this reaction a key step in male sexual differentiation during development (PubMed:2339109, PubMed:23685396). Besides testosterone, it can also act on other steroids, including progesterone, androstenedione, and corticoids, producing metabolites with diverse roles (PubMed:2339109). Hence, it plays a central role in sexual differentiation and androgen physiology (PubMed:2339109).
Cellular Location	Microsome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location	Liver and prostate (at a low level).

References

Andersson S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:3640-3644(1990).
Jenkins E.P.,et al.Genomics 11:1102-1112(1991).
Yu W.,et al.Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of SRD5A1 expression in HEK293T (A), PC3 (B), A549 (C) whole cell lysates. (Predicted band size: 29 kD; Observed band size: 29 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.