

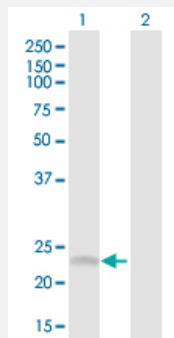
MaxPab®

SRD5A1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00006715-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of SRD5A1 expression in transfected 293T cell line ([H00006715-T03](#)) by SRD5A1 MaxPab polyclonal antibody.

Lane 1: SRD5A1 transfected lysate(29.50 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human SRD5A1 protein.
Immunogen	SRD5A1 (NP_001038.1, 1 a.a. ~ 259 a.a) full-length human protein.
Sequence	MATATGVAEERLLAALAYLQCAVGCAVFARNRQTNSVYGRHALPSHRLRVPARAAWVVQELPSL ALPLYQYASESAPRLRSAPNCILLAMFLVHYGHRCLYPFLMRGGKPMPLLA CTMAIMFCTCNGYL QSRYLSHCAVYADDWVTDPRFLIGFGLWLTGMLNIHSDHILRNLRKPGDTGYKIPRGGLFEYVTAA NYFGEIMEWCYALASWSVQGAFAFFTFCFLSGRAKEHHEWYLRKFEEYPKFRKIIIPFLF
Host	Rabbit
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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[Protocol Download](#)

Gene Info — SRD5A1

Entrez GeneID	6715
GeneBank Accession#	NM_001047.2
Protein Accession#	NP_001038.1
Gene Name	SRD5A1
Gene Alias	-
Gene Description	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
Omim ID	184753
Gene Ontology	Hyperlink
Gene Summary	Steroid 5-alpha-reductase (EC 1.3.99.5) catalyzes the conversion of testosterone into the more potent androgen, dihydrotestosterone (DHT). Also see SRD5A2 (MIM 607306).[supplied by OMIM]
Other Designations	3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1 5-alpha reductase OTTHUMP00000115519 steroid 5-alpha-reductase type II steroid-5-alpha-reductase 1

Publication Reference

- [Resistance exercise-induced increase in muscle 5 \$\alpha\$ -dihydrotestosterone contributes to the activation of muscle Akt/mTOR/p70S6K- and Akt/AS160/GLUT4-signaling pathways in type 2 diabetic rats.](#)

Naoki Horii, Natsuki Hasegawa, Shumpei Fujie, Masataka Uchida, Motoyuki Iemitsu.

FASEB Journal 2020 Aug; 34(8):11047.

Application: WB-Ti, Rat, Rat gastrocnemius muscles

- [Increased Muscular 5 \$\alpha\$ -Dihydrotestosterone in Response to Resistance Training Relates to Skeletal Muscle Mass and Glucose Metabolism in Type 2 Diabetic Rats.](#)

Horii N, Sato K, Mesaki N, Iemitsu M.

PLoS One 2016 Nov; 11(11):e0165689.

Application: WB-Ti, Rat, Rat gastrocnemius muscle

- [The Exercise-Induced Improvement in hyperglycemia is Mediated by DHT Produced in the Skeletal Muscle of Zucker Diabetic Fatty Rats.](#)

Sato K, Fujita S, Yamauchi H, Shiroya Y, Kitamura H, Minato K, Iemitsu M.

Journal of Diabetes and Metabolism 2012 Dec; 4(1):239.

Application: WB-Ti, Rat, Gastrocnemius muscle

- [Dihydrotestosterone synthesis bypasses testosterone to drive castration-resistant prostate cancer.](#)

Chang KH, Li R, Papari-Zareei M, Watumull L, Zhao YD, Auchus RJ, Sharifi N.

PNAS 2011 Aug; 108(33):13728.

Application: WB-Ti, WB-Tr, Human, Mouse, LAPC4, LNCaP cells, Mouse tumors

- [DHEA Administration Activates Local Bioactive Androgen Metabolism in Cancellous Site of Tibia of Ovariectomized Rats.](#)

Park JH, Aizawa K, Iemitsu M, Sato K, Akimoto T, Agata U, Maeda S, Ezawa I, Omi N.

Calcified Tissue International 2011 Aug; 89(2):105.

Application: WB-Ti, Rat, Rat trabecular bone

Pathway

- [Androgen and estrogen metabolism](#)

Disease

- [Alopecia](#)
- [Asperger Syndrome](#)

- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hirsutism](#)
- [Hyperandrogenism](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Male pattern baldness](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Peripheral Vascular Diseases](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Social Perception](#)
- [Thrombophilia](#)

- [Tobacco Use Disorder](#)