

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2034a

Specification

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - Product Information

Application	WB
Primary Accession	P31213
Other Accession	NP_000339 , 6716
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	28407

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - Additional Information

Gene ID 6716

Other Names

3-oxo-5-alpha-steroid 4-dehydrogenase 2, 1.3.1.22, 5 alpha-SR2, SR type 2, Steroid 5-alpha-reductase 2, S5AR 2, Type II 5-alpha reductase, SRD5A2

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - Protein Information

Name SRD5A2

Function

Converts testosterone (T) into 5-alpha-dihydrotestosterone (DHT) and progesterone or corticosterone into their corresponding 5- alpha-3-oxosteroids. It plays a central role in sexual differentiation and androgen physiology.

Cellular Location

Microsome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane;

Multi-pass membrane protein

Tissue Location

Expressed in high levels in the prostate and many other androgen-sensitive tissues

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - Images



AF2034a (0.3 µg/ml) staining of Human Prostate lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - Background

This gene encodes a microsomal protein expressed at high levels in androgen-sensitive tissues such as the prostate. The encoded protein is active at acidic pH and is sensitive to the 4-azasteroid inhibitor finasteride. Deficiencies in this gene can result in male pseudohermaphroditism, specifically pseudovaginal perineoscrotal hypospadias (PPSH).

Goat Anti-SRD5A2 / 5-alpha reductase 2 Antibody - References

SRD5A2 is associated with increased cortisol metabolism in schizophrenia spectrum disorders. Steen NE, et al. Prog Neuropsychopharmacol Biol Psychiatry, 2010 Aug 25. PMID 20800085.
Comprehensive analysis of common genetic variation in 61 genes related to steroid hormone and insulin-like growth factor-I metabolism and breast cancer risk in the NCI breast and prostate cancer cohort consortium. Canzian F, et al. Hum Mol Genet, 2010 Oct 1. PMID 20634197.
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
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Genetics of hypospadias: are single-nucleotide polymorphisms in SRD5A2, ESR1, ESR2, and ATF3 really associated with the malformation? van der Zanden LF, et al. J Clin Endocrinol Metab, 2010 May. PMID 20215396.