

**SRD5A3 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5276b**

**Specification**

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**SRD5A3 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">O9H8P0</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36521
Antigen Region	283-311

**SRD5A3 Antibody (C-term) - Additional Information**

**Gene ID** 79644

**Other Names**

Polyprenol reductase, 3-oxo-5-alpha-steroid 4-dehydrogenase 3, Steroid 5-alpha-reductase 2-like, Steroid 5-alpha-reductase 3, S5AR 3, SR type 3, SRD5A3, SRD5A2L

**Target/Specificity**

This SRD5A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 283-311 amino acids from the C-terminal region of human SRD5A3.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

SRD5A3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SRD5A3 Antibody (C-term) - Protein Information**

**Name** SRD5A3 {ECO:0000303|PubMed:17986282, ECO:0000312|HGNC:HGNC:25812}

**Function** Plays a key role in early steps of protein N-linked glycosylation by being involved in the conversion of polyprenol into dolichol (PubMed:[20637498](#), PubMed:[38821050](#)). Acts as a polyprenal reductase that mediates the reduction of polyprenal into dolichol in a NADP-dependent mechanism (PubMed:[38821050](#)). Dolichols are required for the synthesis of dolichol-linked monosaccharides and the oligosaccharide precursor used for N-glycosylation (PubMed:[20637498](#), PubMed:[38821050](#)). Also able to convert testosterone (T) into 5-alpha- dihydrotestosterone (DHT) (PubMed:[17986282](#), PubMed:[26855069](#)).

#### **Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein

#### **Tissue Location**

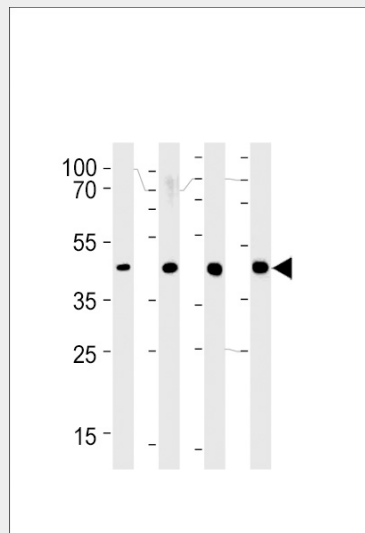
Expressed in preadipocytes (at protein level) (PubMed:[26855069](#)). Overexpressed in hormone-refractory prostate cancers (HRPC). Almost no or little expression in normal adult organs

### **SRD5A3 Antibody (C-term) - Protocols**

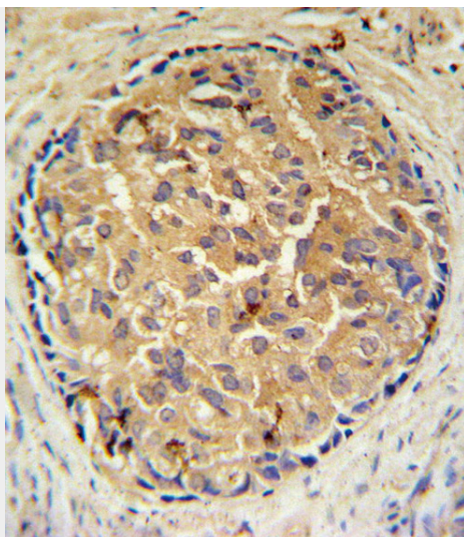
Provided below are standard protocols that you may find useful for product applications.

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

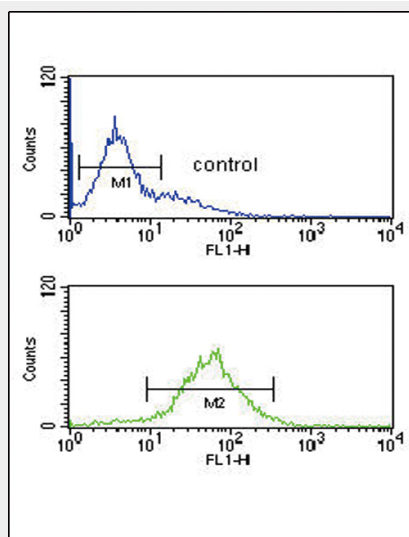
### **SRD5A3 Antibody (C-term) - Images**



SRD5A3 Antibody (C-term) (Cat. #AP5276b) western blot analysis in 293, LNCaP, PC-3, NCI-H292 cell line lysates (35ug/lane). This demonstrates the SRD5A3 antibody detected the SRD5A3 protein (arrow).



SRD5A3 Antibody (C-term) (Cat. #AP5276b) IHC analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SRD5A3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



SRD5A3 Antibody (C-term) (Cat. #AP5276b) flow cytometric analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **SRD5A3 Antibody (C-term) - Background**

SRD5A3 converts testosterone (T) into 5-alpha-dihydrotestosterone (DHT).

### **SRD5A3 Antibody (C-term) - References**

Uemura, M., et al. Cancer Sci. 99(1):81-86(2008)