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SRD5A3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5276b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9H8P0
Reactivity	Human, Rat
Predicted	Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36521
Antigen Region	283-311

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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 dolichal 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

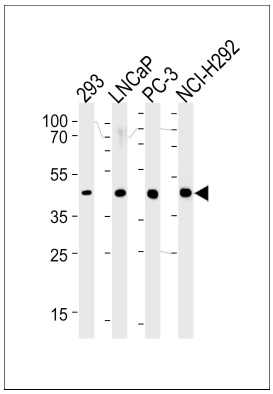
Background

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

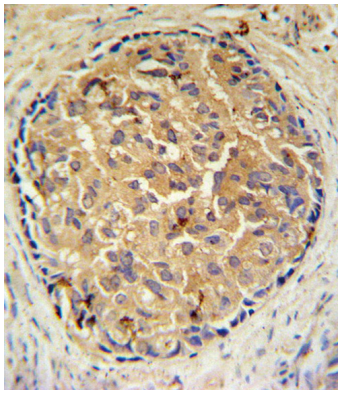
References

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

Images

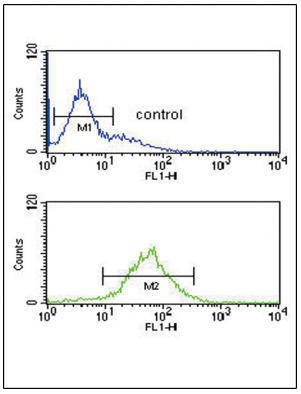


SRD5A3 Antibody (C-term) (Cat. #AP5276b) western blot analysis in 293,LNCaP,PC-3,NCI-H292 cell line lysates (35ug/lane).This demonstrates the SRD5A3 antibody detected the SRD5A3 protein (arrow).



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.



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