

Anti-SRD5A2 Antibody [JE39-31]

HA722343



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 28 kDa
Clone number:	JE39-31

Description: The human gene SRD5A2 encodes the 3-oxo-5 α -steroid 4-dehydrogenase 2 enzyme, also known as 5 α -reductase type 2 (5 α R2), one of three isozymes of 5 α -reductase. 5 α R2 catalyzes the conversion of the male sex hormone testosterone into the more potent androgen, dihydrotestosterone. 5 α R2 is a microsomal protein expressed at high levels in androgen-sensitive tissues such as the prostate. The enzyme is active at acidic pH and is sensitive to the 4-azasteroid inhibitor finasteride. Deficiencies in 5 α R2 activity of the can lead to a condition known as 5 α -reductase 2 deficiency, which is a cause of 46,XY DSD that presents as atypical male genitalia.

Immunogen: Recombinant protein within Human SRD5A2 aa 1-100 / 254.

Positive control: LNCaP cell lysate, MCF7 cell lysate, rat testis tissue lysate, SH-SY5Y cell lysate, HepG2 cell lysate, rat liver tissue lysate.

Subcellular location: Microsome membrane, Endoplasmic reticulum membrane.

Database links: SwissProt: P31213 Human | P31214 Rat

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

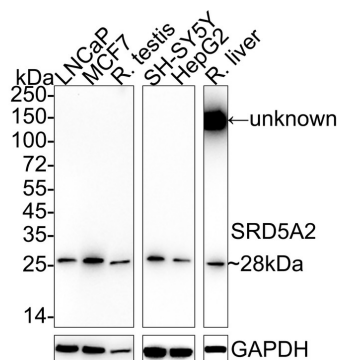
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of SRD5A2 on different lysates with Rabbit anti-SRD5A2 antibody (HA722343) at 1/1,000 dilution.



Lane 1: LNCaP cell lysate (20 µg/Lane)
 Lane 2: MCF7 cell lysate (20 µg/Lane)
 Lane 3: Rat testis tissue lysate (40 µg/Lane)
 Lane 4: SH-SY5Y cell lysate (20 µg/Lane)
 Lane 5: HepG2 cell lysate (20 µg/Lane)
 Lane 6: Rat liver tissue lysate (40 µg/Lane)

Predicted band size: 28 kDa
 Observed band size: 28 kDa

Exposure time: Lane 1-3: 3 minutes; Lane 4-5: 1 minute; Lane 6: 9 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722343) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Seo J et al. The Genotype-Phenotype Correlation in Human 5alpha-Reductase Type 2 Deficiency: Classified and Analyzed from a SRD5A2 Structural Perspective. Int J Mol Sci. 2023 Feb
2. Duan H et al. Two genetic variants in the SRD5A2 gene are found to be associated with sex differences in the disease characteristics of patients with chronic hepatitis B virus infection. Biol Sex Differ. 2023 Oct

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