

3 β -HSD2 (m): 293T Lysate: sc-117972

BACKGROUND

3 β -hydroxysteroid dehydrogenase (3 β -HSD), also known as HSD3B1 or HSD3B3, is a bifunctional enzyme that plays a crucial role in the synthesis of all classes of hormonal steroids. Two human 3 β -HSD proteins, designated type I (3 β -HSD) and type II (3 β -HSD2), are expressed by different genes and function in different areas of the body. Localized to the membrane of the endoplasmic reticulum (ER) and expressed in testis, ovaries and adrenal gland, 3 β -HSD2 is the type II protein that catalyzes the oxidative conversion of δ^5 -ene-3 β -hydroxysteroid, as well as the conversion of various ketosteroids. Defects in the gene encoding 3 β -HSD2 are the cause of adrenal hyperplasia type 2 (AH2), a form of recessive congenital adrenal hyperplasia that is characterized by excess androgen which can lead to ambiguous genitalia and rapid somatic growth.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Hsd3b2 (mouse) mapping to 3 F2.2.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

3 β -HSD2 (m): 293T Lysate represents a lysate of mouse 3 β -HSD2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

3 β -HSD2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive 3 β -HSD2 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.