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SANTA CRUZ BIOTECHNOLOGY, INC.

3β-HSD4 (m): 293T Lysate: sc-117974

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

3β-HSD4 (3 β-hydroxysteroid dehydrogenase type 4) is a 373 amino acid murine protein that localizes to the membrane of both the mitochondrion and the endoplasmic reticulum and belongs to the 3β-HSD family. Expressed in kidney and testis, 3β-HSD4 functions to catalyze the $NADP^+$-dependent conversion of 3-β-hydroxy-Δ^5-steroid to 3-oxo-Δ^5-steroid, thereby playing a crucial role in the biosynthesis of hormonal steroids. The gene encoding 3β-HSD4 maps to mouse chromosome 3 F2.2. Murine chromosome 3 houses over 1,300 genes, some of which express alcohol dehydrogenases (ADHs), sodium channel modifiers (SCNMs), interleukins (ILs) and Insulin receptor-related (IRR) proteins. Defects in chromosome 3-localized genes are associated with hereditary congenital facial paresis (HCFP), increased susceptibility to spontaneous colitis, HIV-1-associated nephropathy, decreased renal vascular health and malignant sporadic pancreatic endocrine tumors.

REFERENCES

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STORAGE

Store at -20° 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.

CHROMOSOMAL LOCATION

Genetic locus: Hsd3b4 (mouse) mapping to 3 F2.2.

PRODUCT

3β-HSD4 (m): 293T Lysate represents a lysate of mouse 3β-HSD4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

3β-HSD4 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive 3β-HSD4 antibodies. Recommended use: 10-20 µl per lane.

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

RESEARCH USE

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