SANTA CRUZ BIOTECHNOLOGY, INC.

Sur-8 (m2): 293T Lysate: sc-123846

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The Power to Question

BACKGROUND

Sur-8, also known as SHOC2 (Soc-2 suppressor of clear homolog *(C. elegans)*) or SOC-2, is a 582 amino acid protein and a member of the SHOC2 family that translocates from cytoplasm to nucleus upon growth factor stimulation. Existing as 2 alternatively spliced isoforms, Sur-8 contains 20 leucine-rich repeats (LRR) and positively modulates Ras-MAPK signal flow. Aberrantly acquired N-myristoylation of SHOC2 is the cause of Noonan-like syndrome with loose anagen hair, a disorder characterized by slow-growing, easily pluckable, thin and sparse hair. Children with Noonan-like syndrome with loose anagen hair exhibit low-set and posteriorly rotated ears, high forehead, palpebral ptosis, hypertelorism, macrocephaly, pectus anomalie along with short and webbed neck. The gene encoding Sur-8 maps to human chromosome 10q25.2 and murine chromosome 19 D2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Shoc2 (mouse) mapping to 19 D2.

PRODUCT

Sur-8 (m2): 293T Lysate represents a lysate of mouse Sur-8 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

RESEARCH USE

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

APPLICATIONS

Sur-8 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Sur-8 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.

PROTOCOLS

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