

RDH12 (h): 293T Lysate: sc-158922

BACKGROUND

Retinol dehydrogenase 11 (RDH12), also known as all-*trans* and 9-*cis* retinol dehydrogenase, LCA3, LCA13 or SDR7C2, is a 316 amino acid protein belonging to the short-chain dehydrogenases/reductases (SDR) family. Widely expressed, mostly in eye, kidney, brain, skeletal muscle and stomach, RDH12 exhibits an oxidoreductive catalytic activity towards retinoids. RDH12 is an efficient NADPH-dependent retinal reductase and displays high activity toward 9-*cis* and all-*trans*-retinol. RDH12 is involved in the metabolism of short-chain aldehydes and may be a key enzyme in the formation of 11-*cis*-retinol from 11-*cis*-retinol during regeneration of the cone visual pigments. Leber congenital amaurosis (LCA) type 3, an inherited autosomal recessive retinal disease, has been associated with defects of RDH12. LCA represents the most common genetic cause of congenital visual impairment in infants and children.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RDH12 (human) mapping to 14q24.1.

PRODUCT

RDH12 (h): 293T Lysate represents a lysate of human RDH12 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

RDH12 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RDH12 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.

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.

PROTOCOLS

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