

OXA1L (m): 293T Lysate: sc-122293

BACKGROUND

OXA1L (oxidase (cytochrome c) assembly 1-like), also known as OXA1, is a 435 mitochondrial inner membrane protein belonging to the evolutionarily conserved Oxa1/Alb3/YidC protein family. Members of the Oxa1/Alb3/YidC protein family are involved in the biogenesis of membrane proteins in mitochondria, chloroplasts and bacteria. Existing as three isoforms produced by alternative splicing events, OXA1L is required for the insertion of integral membrane proteins into the mitochondrial inner membrane. OXA1L is essential for the activity and assembly of cytochrome oxidase and for the correct biogenesis of F₁F₀-ATP synthase and NADH:ubiquinone oxidoreductase. Mutations in the gene encoding OXA1L might be involved in the pathology of combined enzymatic deficiencies of the oxidative phosphorylation (OXPHOS) system.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Oxa1l (mouse) mapping to 14 C2.

PRODUCT

OXA1L (m): 293T Lysate represents a lysate of mouse OXA1L transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

OXA1L (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive OXA1L antibodies. Recommended use: 10-20 µl per lane.

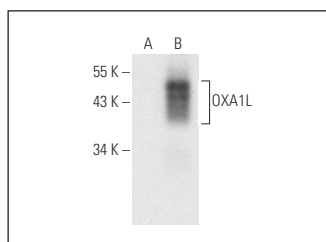
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

OXA1L (A-6): sc-373881 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse OXA1L expression in OXA1L transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

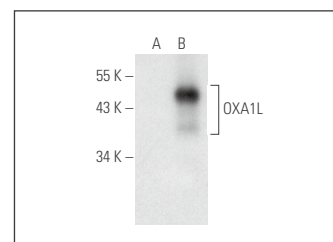
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



OXA1L (A-6): sc-373881. Western blot analysis of OXA1L expression in non-transfected: sc-117752 (A) and mouse OXA1L transfected: sc-122293 (B) 293T whole cell lysates.



OXA1L (F-8): sc-365767. Western blot analysis of OXA1L expression in non-transfected: sc-117752 (A) and mouse OXA1L transfected: sc-122293 (B) 293T whole cell lysates.

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.